

Classification of Fire Performance of Wall and Ceiling Lining Materials

Using the Method of Kokkala, Thomas and Karlsson

Reference: Kokkala, M.A. Thomas, P.H. and Karlsson, B. Rate of Heat Release and Ignitability Indices for Surface Linings. Fire and Materials Vol 17, 209-216 (1993)

Instructions: User input areas are those shaded in light-blue. Before entering or pasting new data into the two columns, it is best to clear any existing data by clicking on the 'Clear Data' button. If necessary, formatting of the cells can be restored by clicking on the 'Formatting' button. **Copy data from Column C (time) of the accompanying csv file and paste into the time column of this spreadsheet. Copy data from column D (HRR) of the csv file and paste into the Rate of Heat Release column of this spreadsheet.**

Material Identification/Description:

Newmat : MR01 Miroir Argent : Test Date 21 April 2021

Clear Data

Formatting

INPUT DATA BELOW

Data from AS/NZS 3837:1998

Test Heat Flux = 50 kW/m²

Time (sec)	Rate of Heat Release (kW/m ²)
3	0.640472405
6	1.595835056
9	2.774551302
12	4.916036591
15	29.11083775
18	65.77285466
21	76.33498382
24	68.84063676
27	47.4630753
30	26.85823385
33	13.82184335
36	8.093419206
39	6.008730681
42	6.31624147
45	5.86879063
48	6.1684674
51	5.791635078
54	6.343932458
57	5.932595824
60	6.388894445
63	5.981193767
66	6.321556379
69	6.883385465
72	5.323889114
75	4.791921952
78	5.103486045
81	4.78383181
84	5.072754216
87	5.135786939
90	3.954984912
93	2.64347675
96	3.868551371
99	4.080660099
102	3.905277281
105	3.778139376

Time to Ignition (sec) =	16.7
Ignitability Index (1/min) =	3.591
End of Test (sec) =	207
Rate of Heat Release Index (m=0.34) =	679.9
10 minute limit =	4861
Rate of Heat Release Index (m=0.93) =	930.9
2 minute limit =	1883
12 minute limit =	1058

THE BCA CLASSIFICATION GROUP IS:

*
*
*
Group 1

This method assumes that no materials lead to flashover after 12 and before 20 minutes.

Materials that are predicted not to flashover within 12 minutes are put into Group 1.

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002628
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "L101 Blanc"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 230g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 733.3 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002628
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "L101 Blanc"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 230g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	13.2	14.1	12.6	13.3	kW/m ²
Average Specific extinction area	698.3	758.9	742.8	733.3	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	11	12	13	12	sec
Test duration	195	199	195	196	sec
Peak heat release after ignition	97.0	82.8	91.2	90.3	kW/m ²
Average heat at 60 s	37.8	38.3	34.9	37.0	kW/m ²

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Chris Campbell
APPROVED SIGNATORY



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MANAGING DIRECTOR

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002628
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	13.4	14.7	12.6	13.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.5	2.7	2.4	2.5	MJ/m ²
Average effective heat of combustion	12.9	15.4	15.9	14.7	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.4	2.3	2.1	2.3	g
Mass remaining	0.6	1.0	0.7	0.8	g
Mass percentage pyrolysed	75.0	57.4	64.7	65.7	%
Mass loss	0.2	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	1.0	0.9	0.8	0.9	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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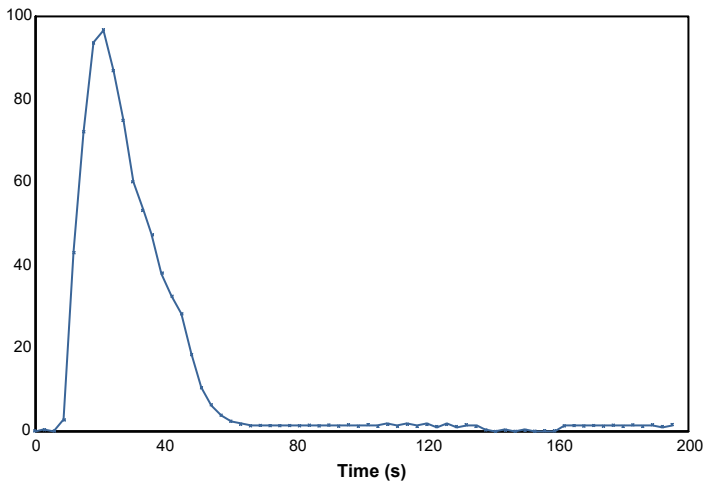
TEST REPORT

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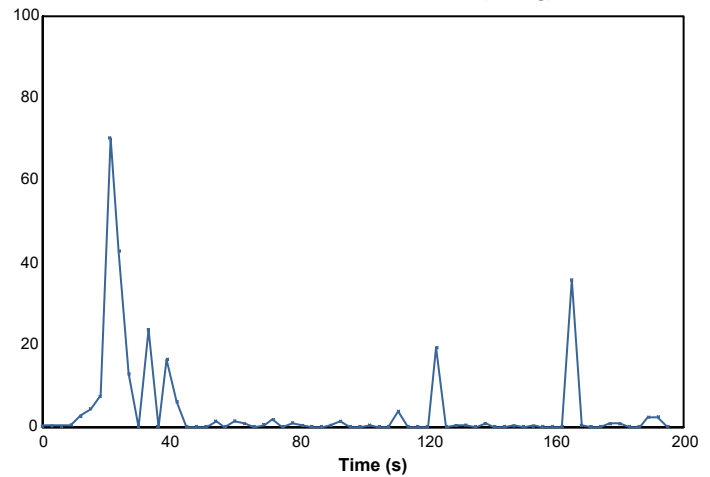
Test Number : 21-002628
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

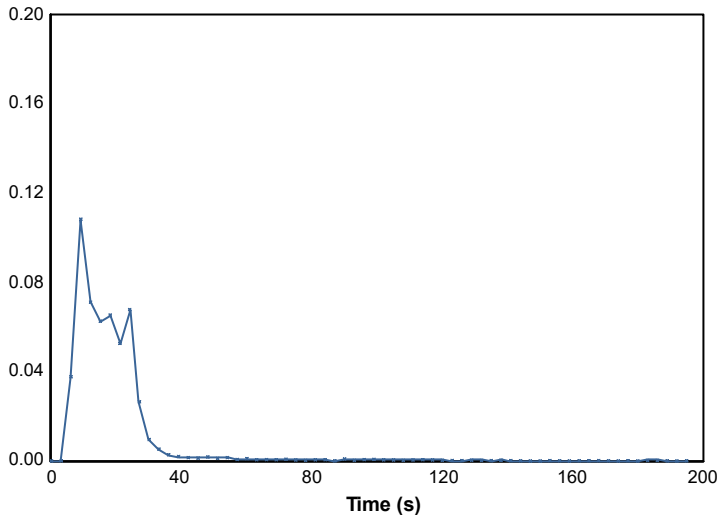
Heat release rate (kW/m²)



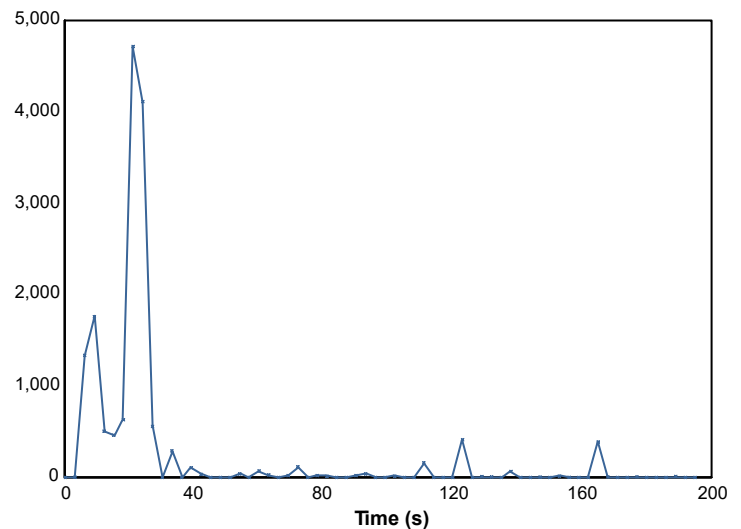
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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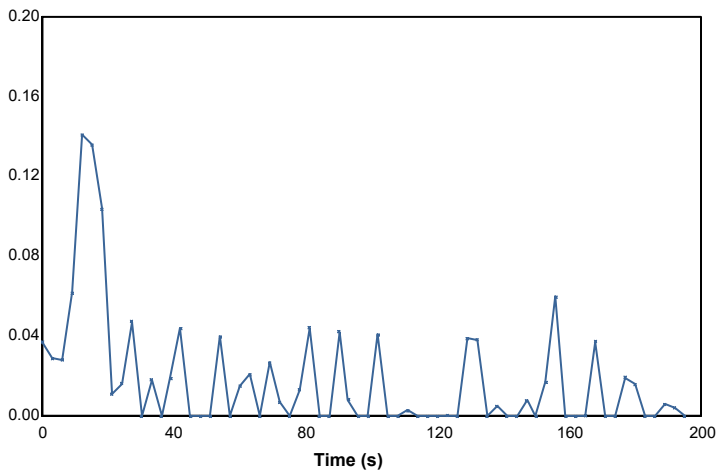
Phone (03) 9371 2400

TEST REPORT

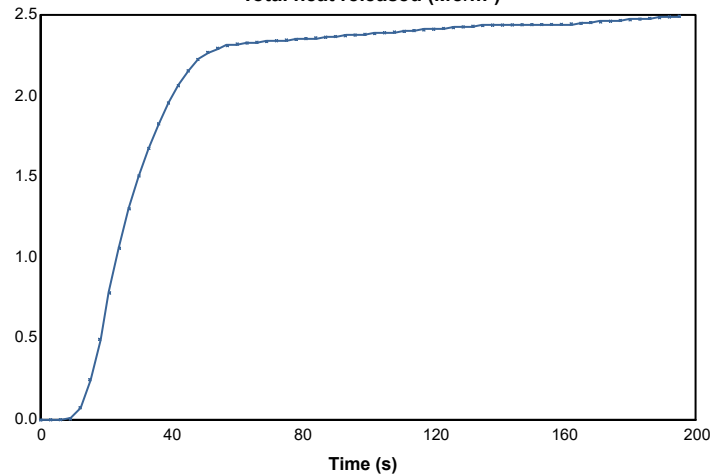
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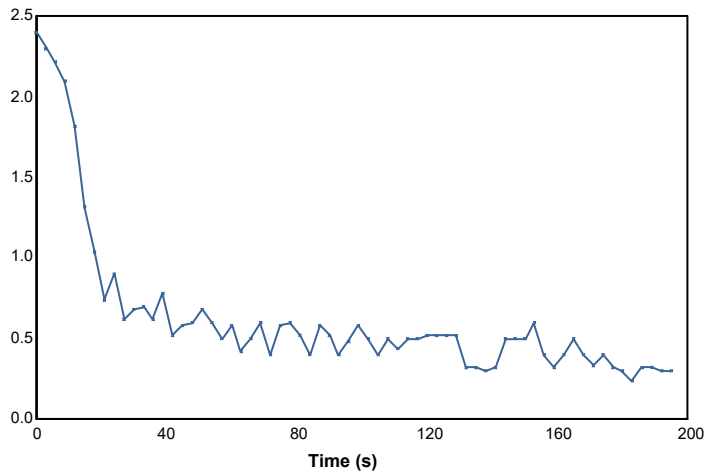
Mass loss rate (g/s)



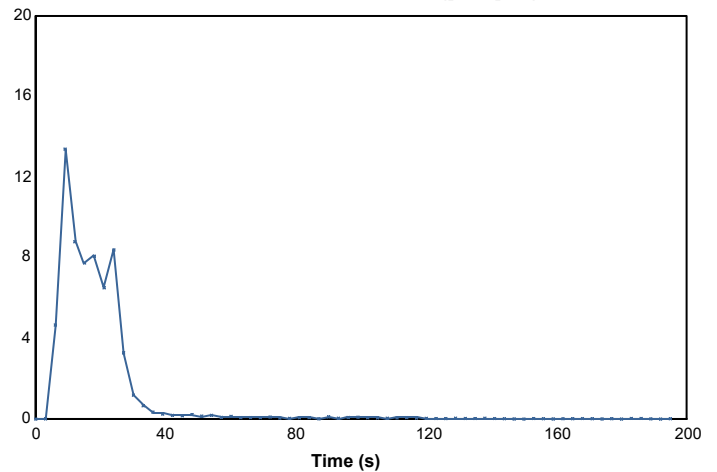
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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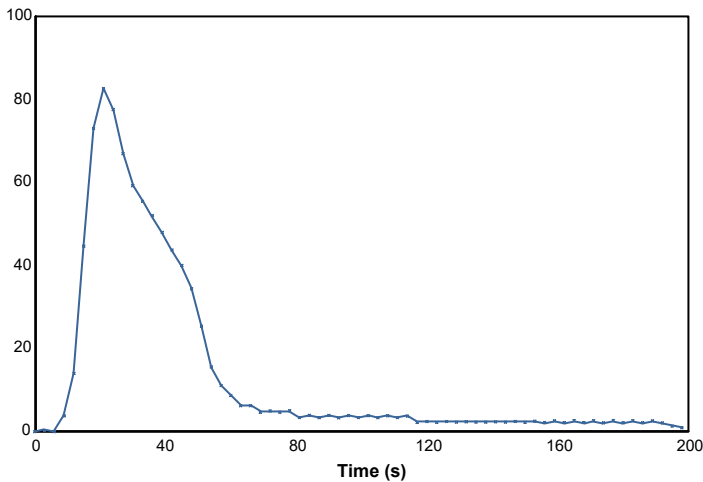
TEST REPORT

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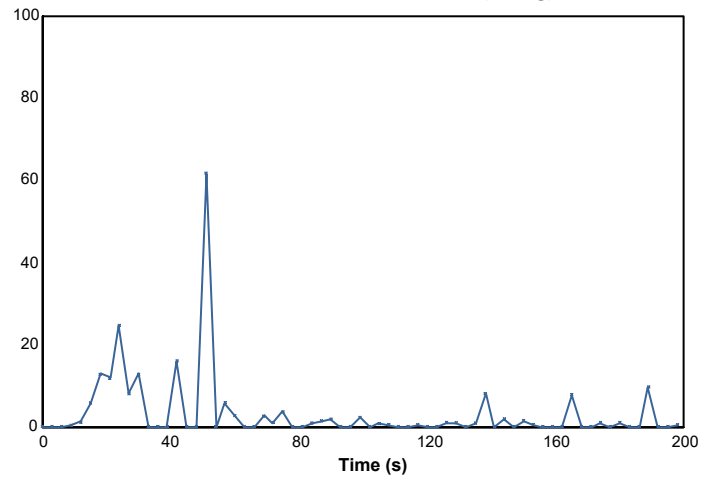
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

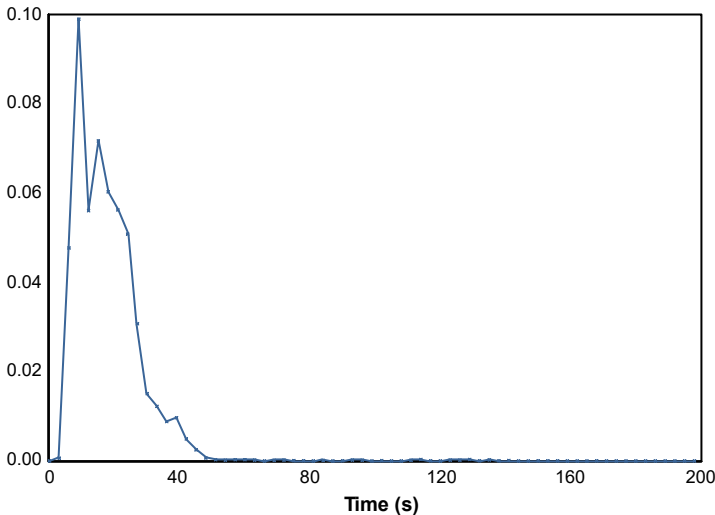
Heat release rate (kW/m²)



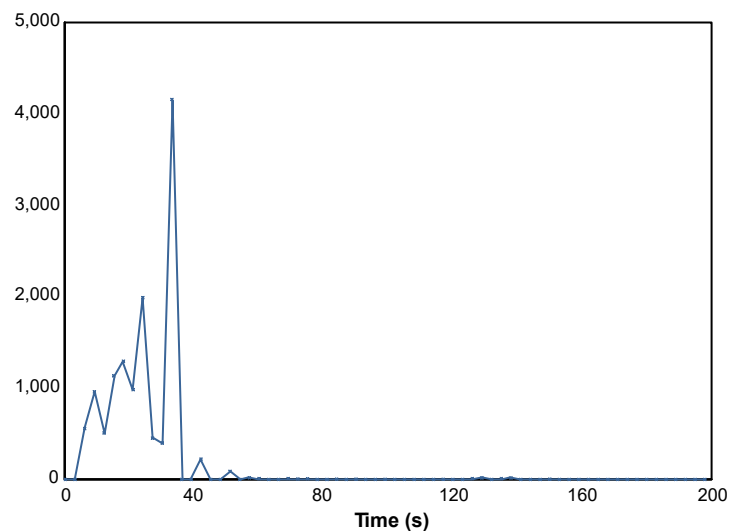
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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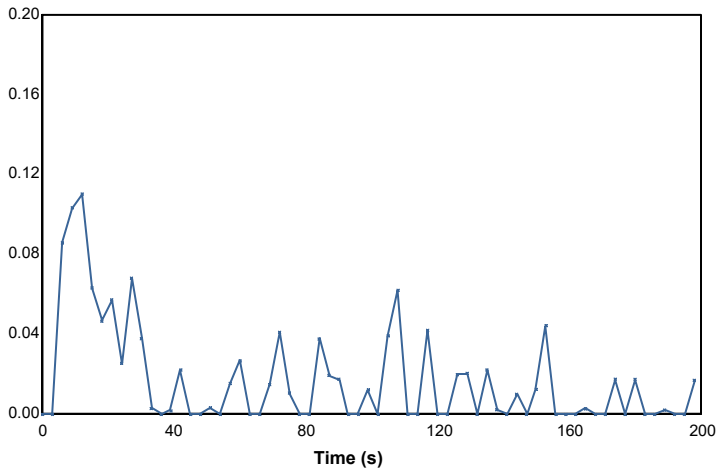
Phone (03) 9371 2400

TEST REPORT

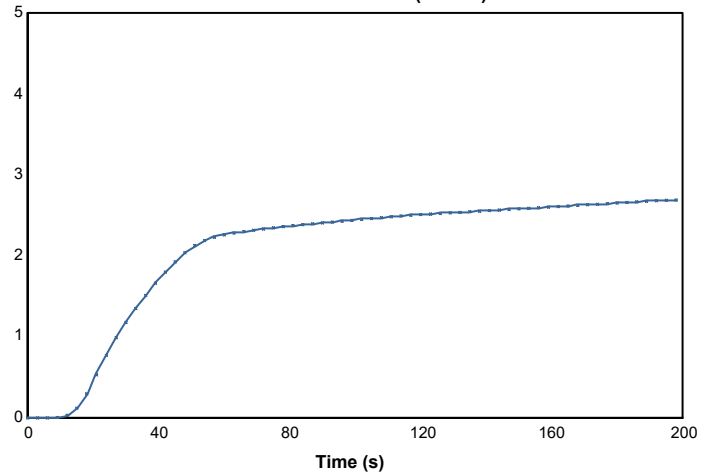
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FRANCE

Test Number : 21-002628
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Print Date : 28/05/2021

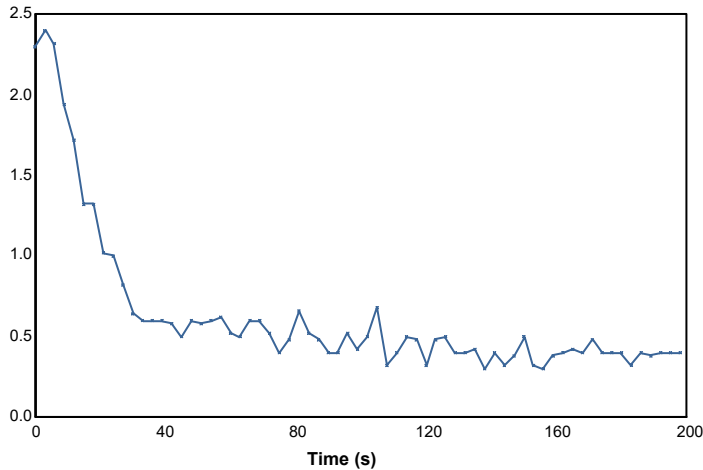
Mass loss rate (g/s)



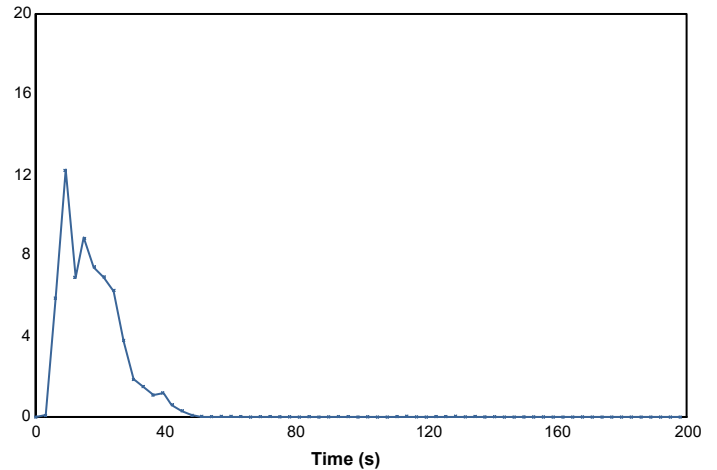
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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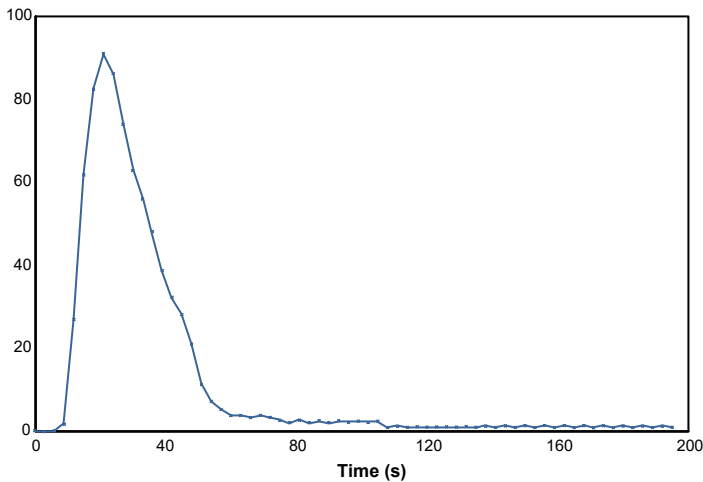
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

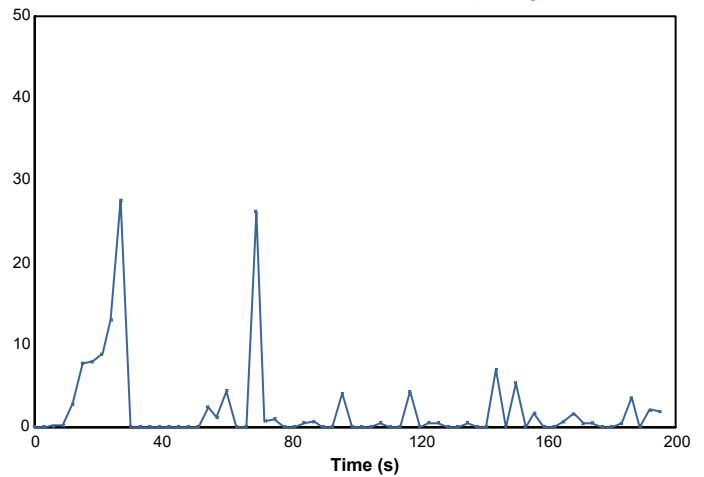
Test Number : 21-002628
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

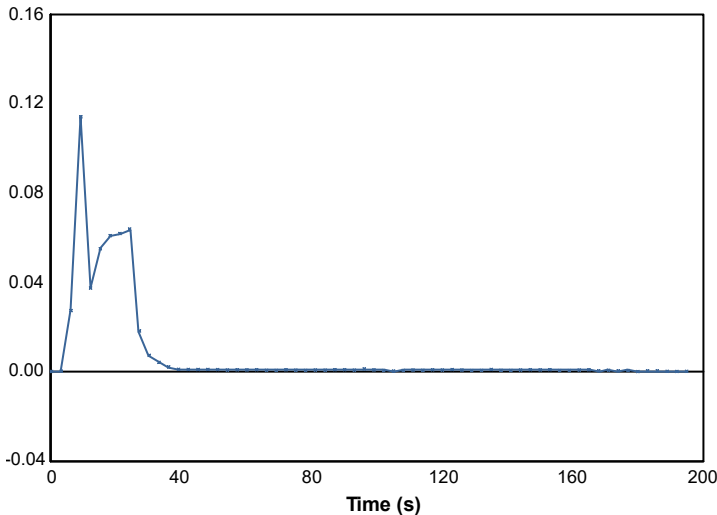
Heat release rate (kW/m²)



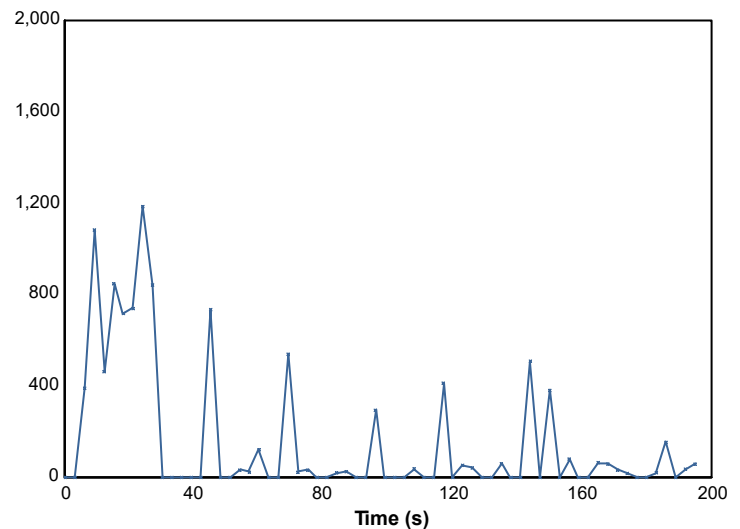
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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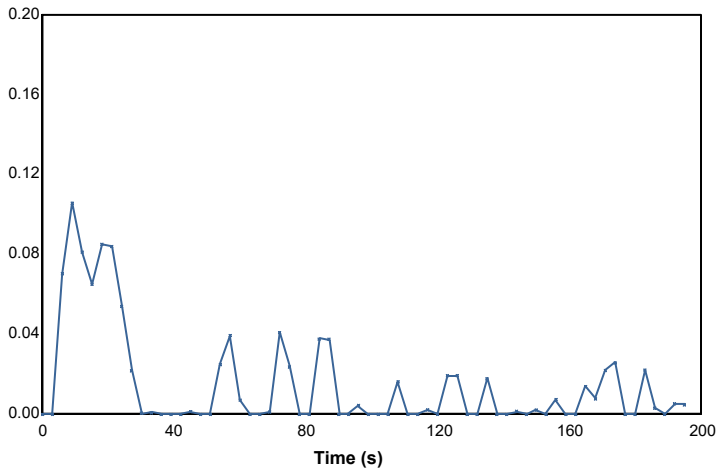
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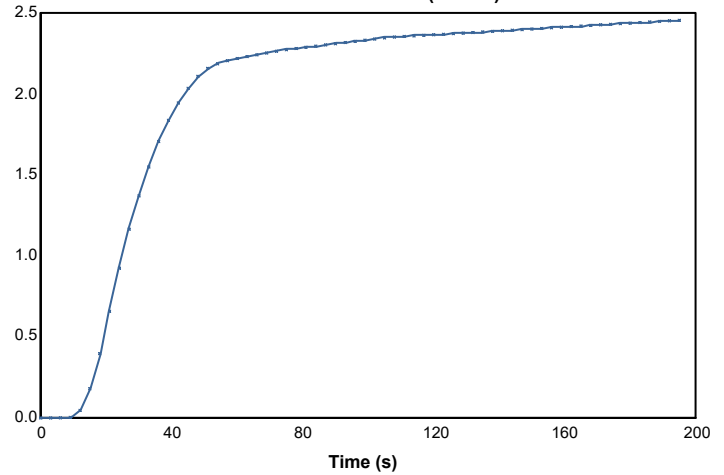
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Test Number : 21-002628
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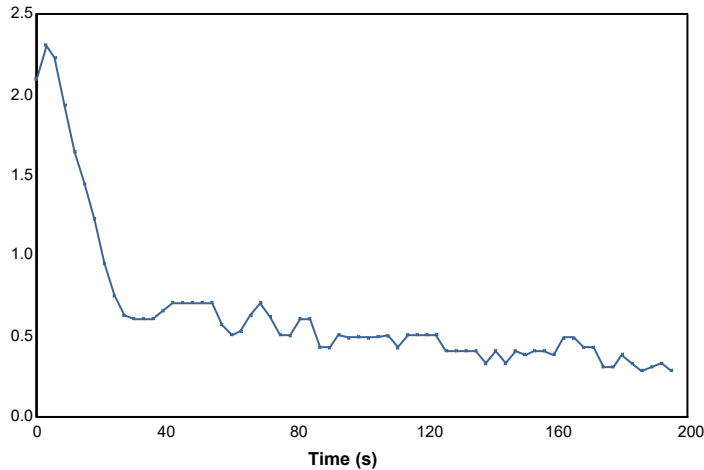
Mass loss rate (g/s)



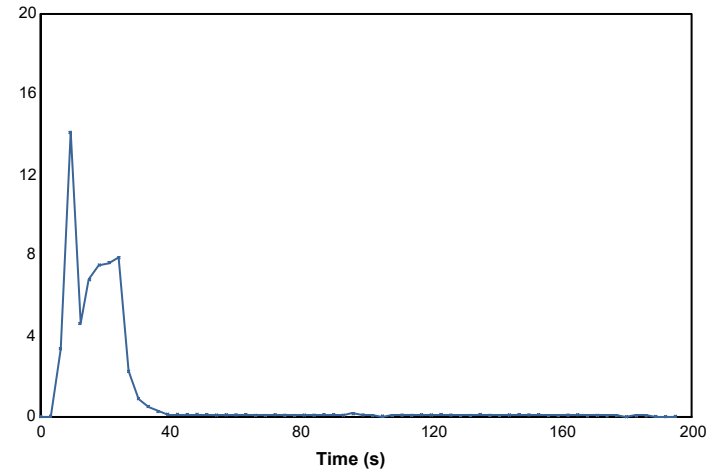
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "L401 Noir"
Flexible vinyl film
Colour : Black
End Use : Stretchec/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 220g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 710.1 m²/kg



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Client Relations Manager

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FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "L401 Noir"
Flexible vinyl film
Colour : Black
End Use : Stretchec/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 220g/m2
Nominal Thickness : 0.17mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	13.4	12.1	14.3	13.2	kW/m ²
Average Specific extinction area	740.7	637.2	752.5	710.1	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	4	3	4	4	sec
Test duration	198	192	188	193	sec
Peak heat release after ignition	109.2	89.9	101.8	100.3	kW/m ²
Average heat at 60 s	39.7	35.9	41.8	39.1	kW/m ²

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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	14.2	12.6	14.5	13.8	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.6	2.3	2.6	2.5	MJ/m ²
Average effective heat of combustion	11.7	8.1	11.6	10.5	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.1	2.2	1.8	2.0	g
Mass remaining	0.2	0.0	0.0	0.1	g
Mass percentage pyrolysed	89.6	100.0	100.0	96.5	%
Mass loss	0.2	0.3	0.2	0.3	kg/m ²
Average rate of mass loss	1.1	1.5	1.2	1.2	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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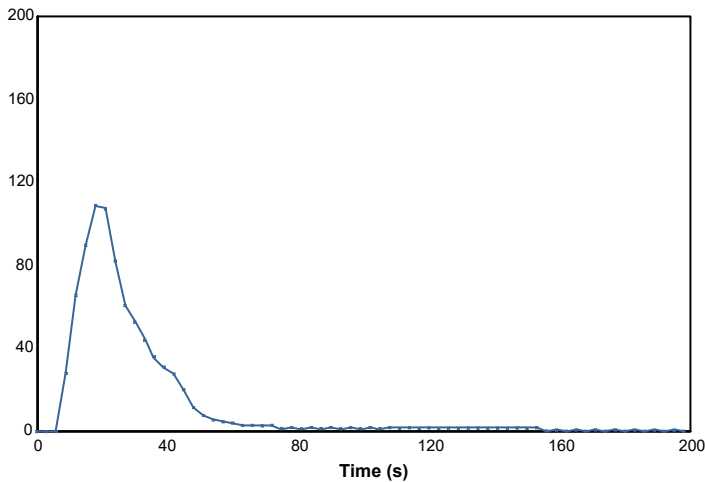
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

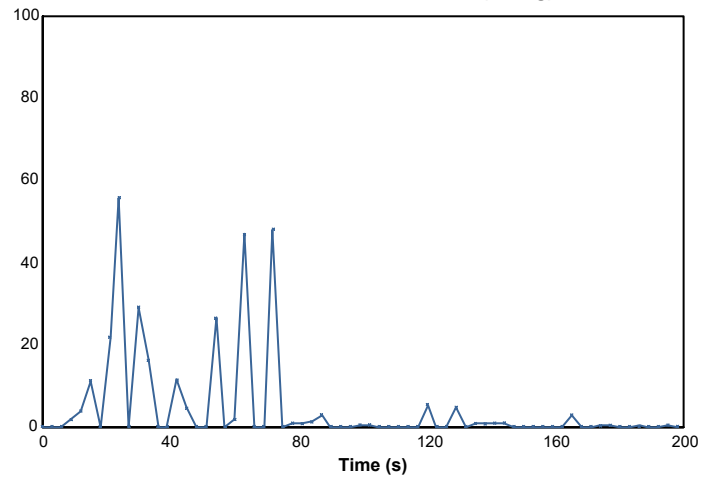
Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

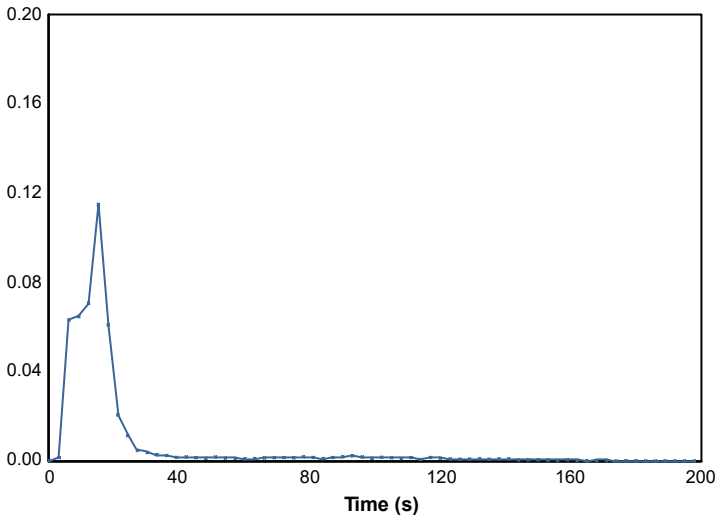
Heat release rate (kW/m²)



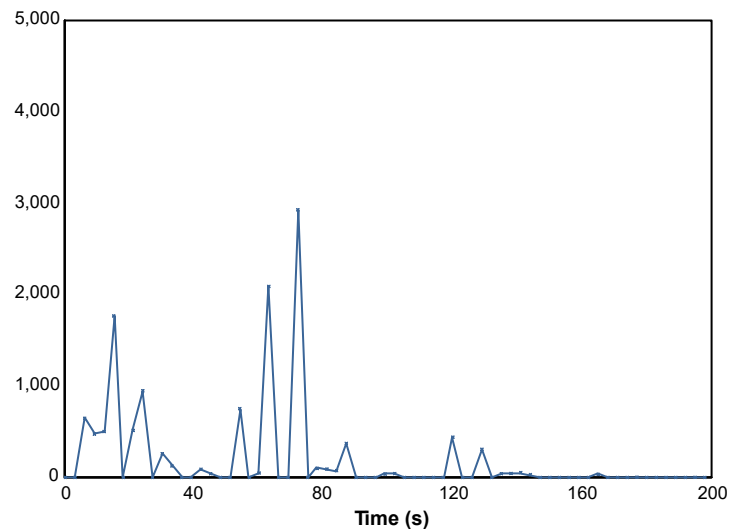
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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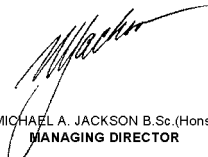
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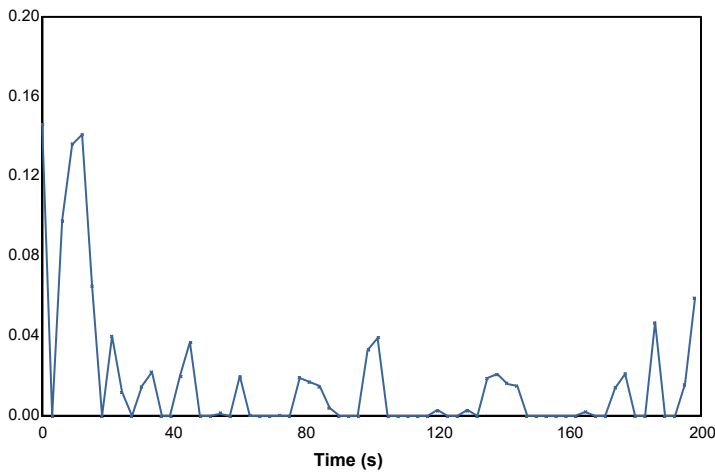
Phone (03) 9371 2400

TEST REPORT

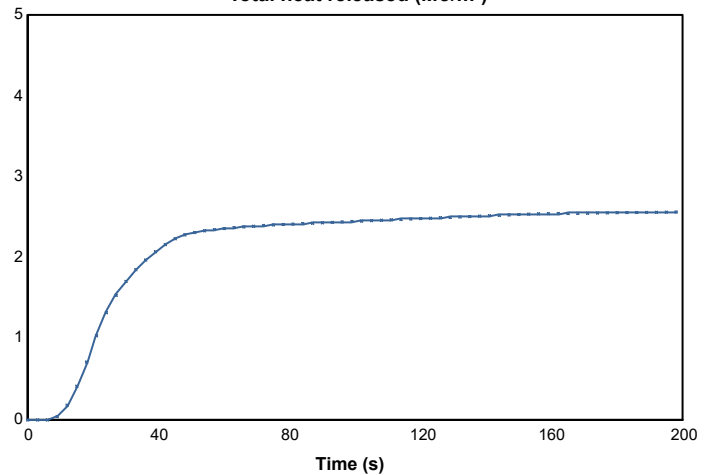
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

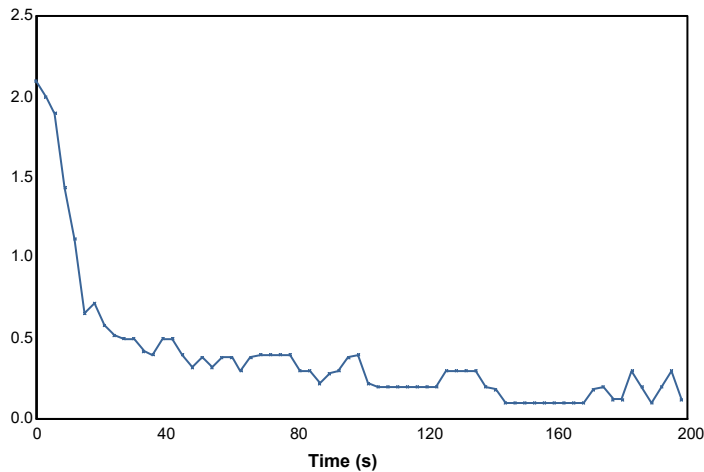
Mass loss rate (g/s)



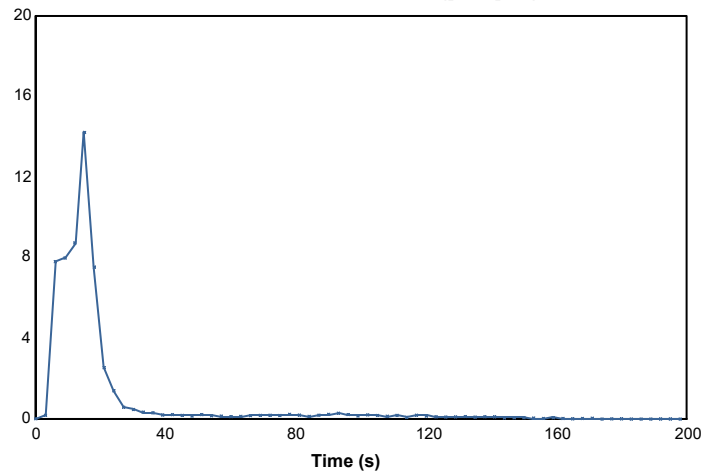
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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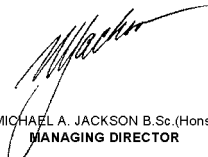
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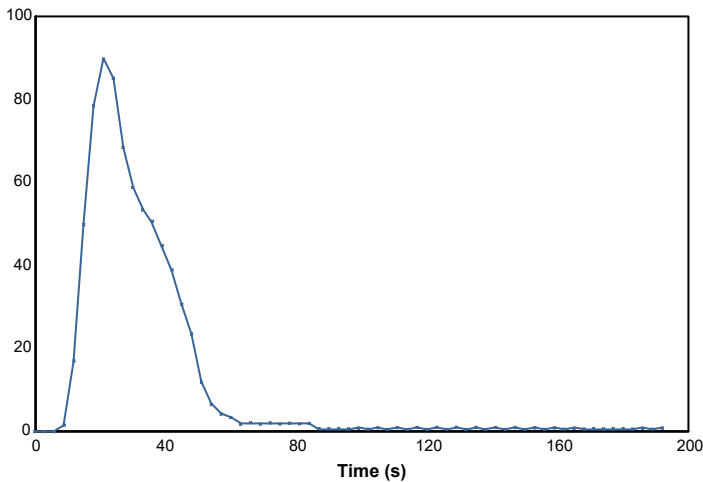
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

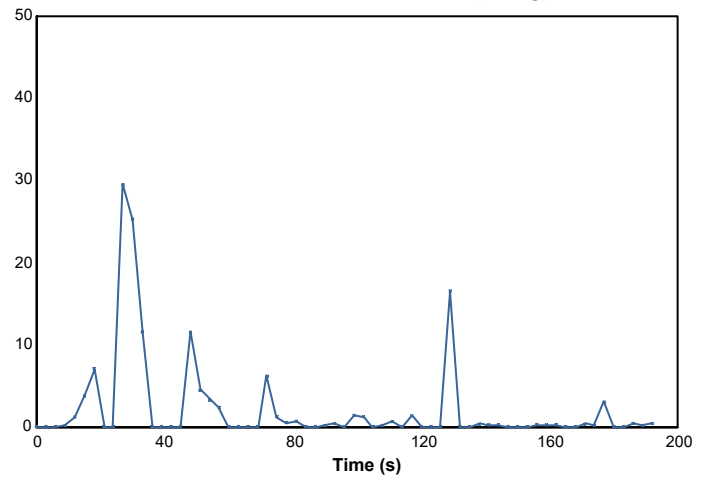
Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

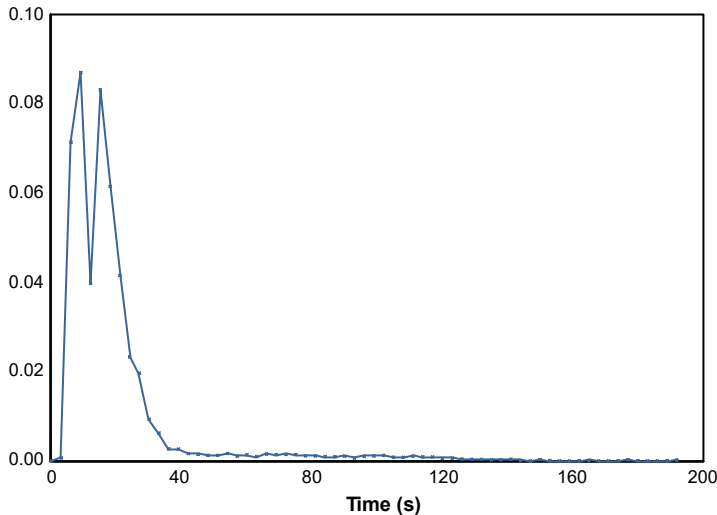
Heat release rate (kW/m²)



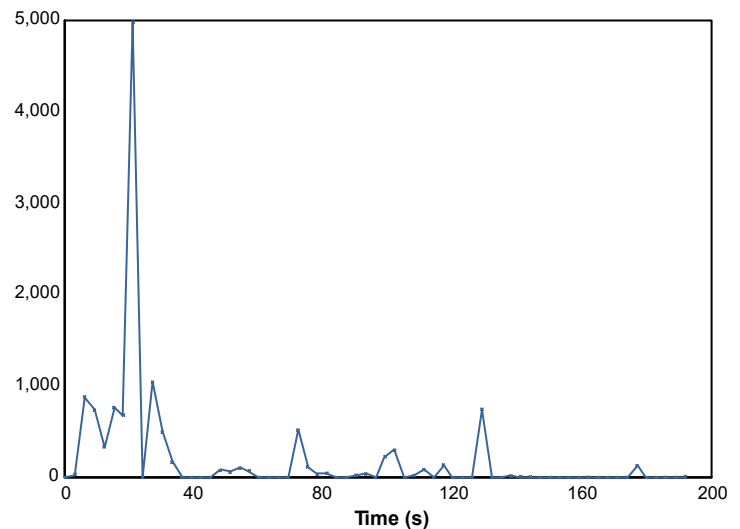
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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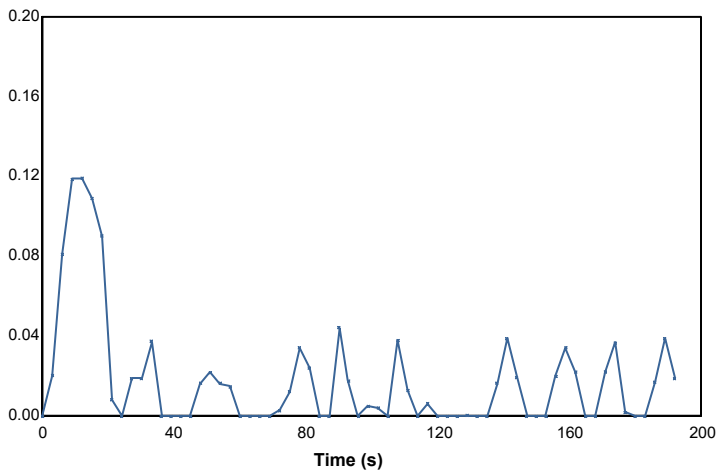
Phone (03) 9371 2400

TEST REPORT

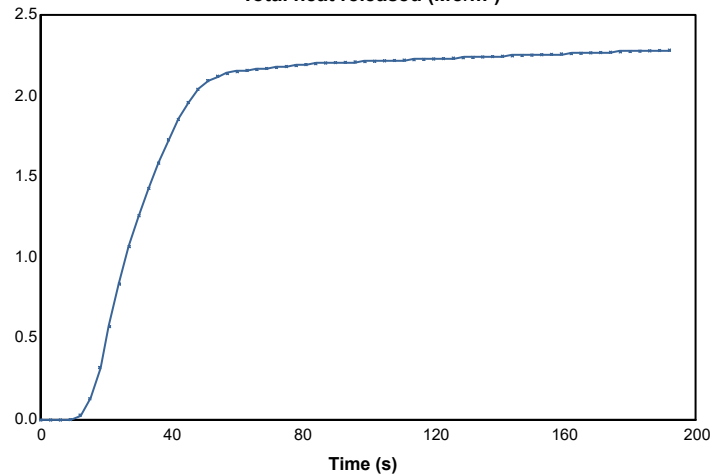
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

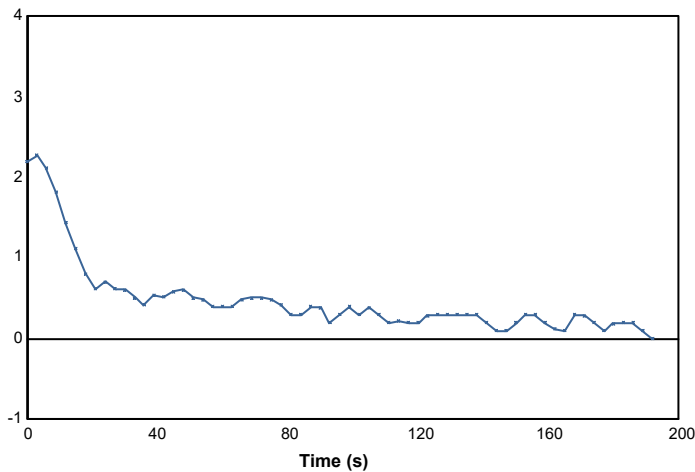
Mass loss rate (g/s)



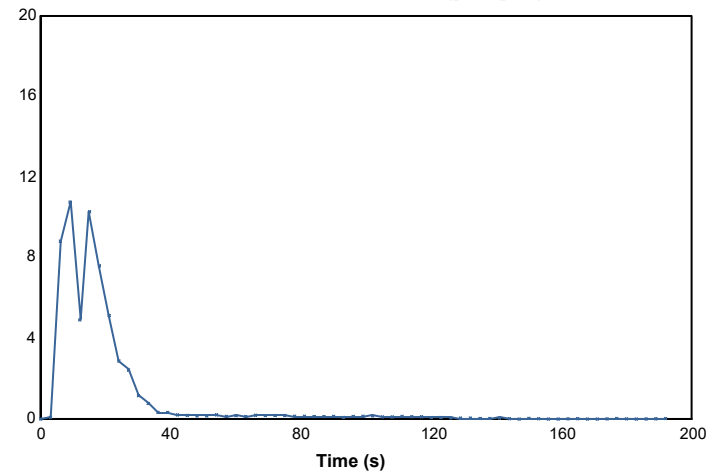
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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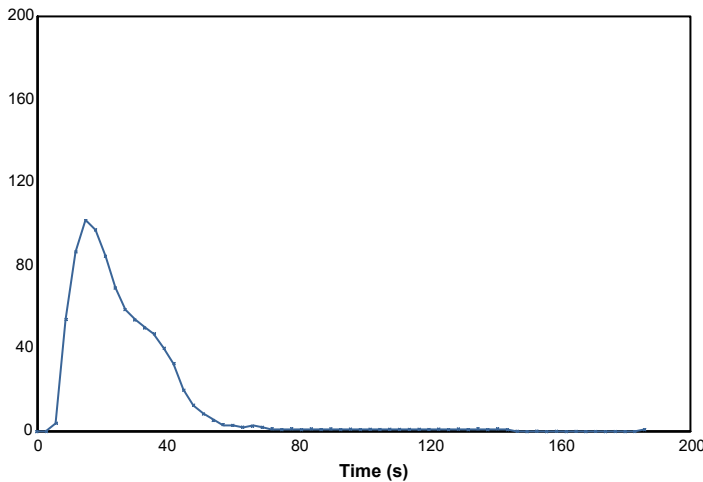
TEST REPORT

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130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

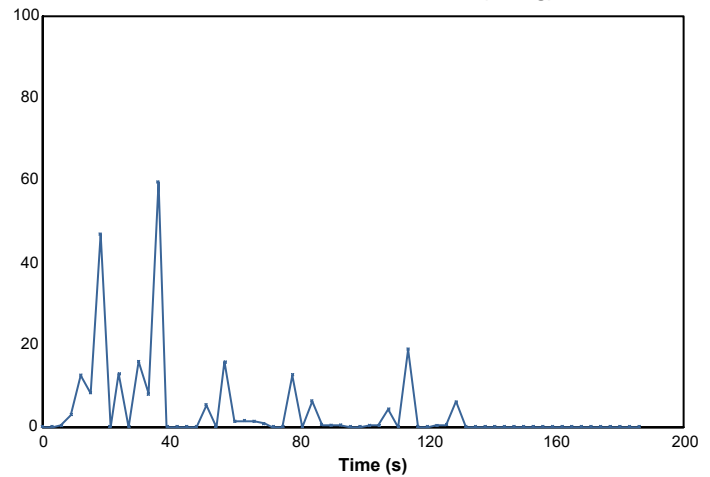
Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

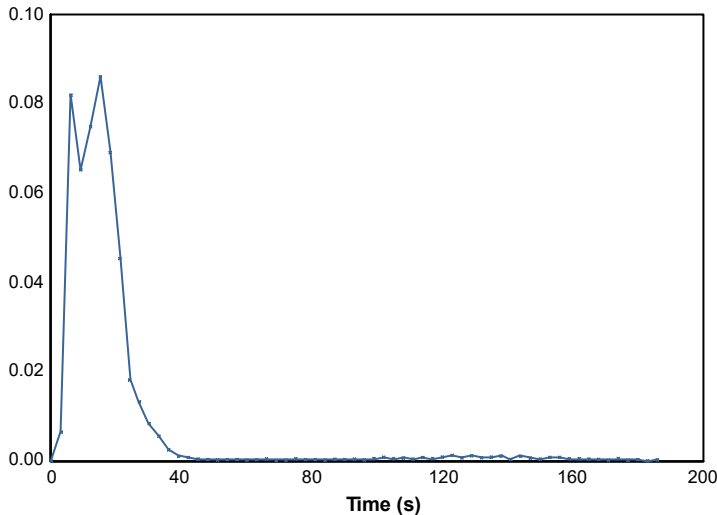
Heat release rate (kW/m²)



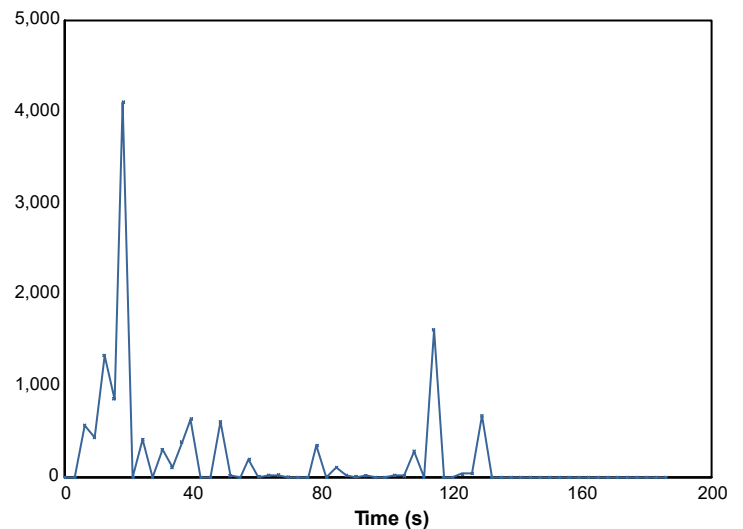
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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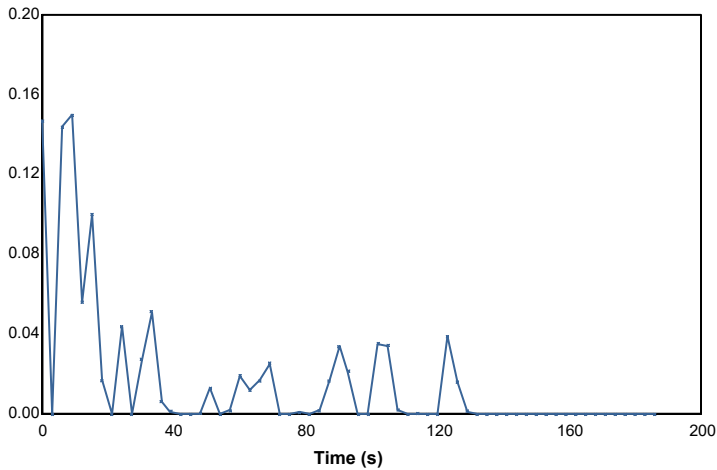
Phone (03) 9371 2400

TEST REPORT

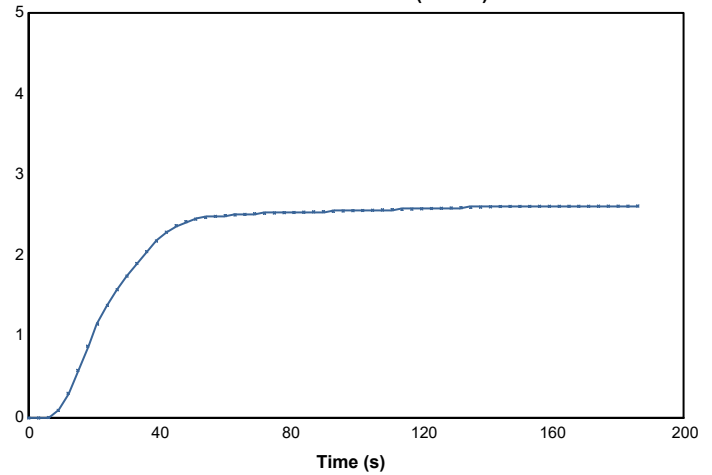
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002641
Issue Date : 28/05/2021
Print Date : 28/05/2021

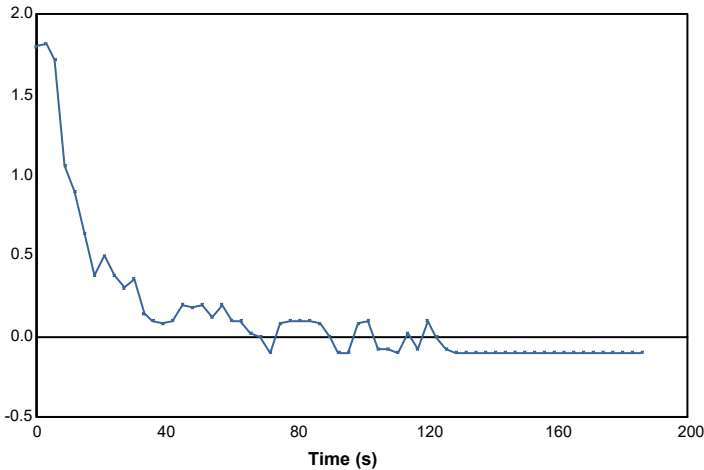
Mass loss rate (g/s)



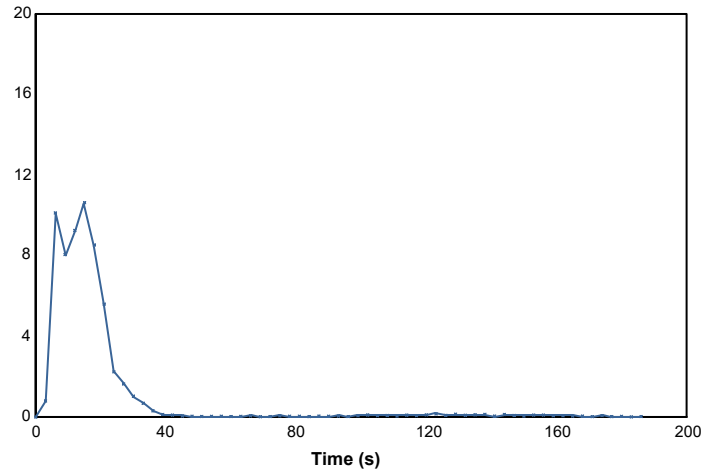
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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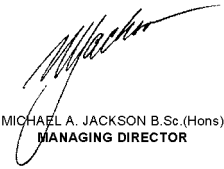


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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "LX01-Blanc Laque"
Flexible vinly film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 396.2 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "LX01-Blanc Laque"
Flexible vinly film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 29-01-2021
Face Tested Gloss Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	19.7	19.4	19.9	19.7	kW/m ²
Average Specific extinction area	388.0	396.6	404.1	396.2	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	5	4	4	4	sec
Test duration	187	186	186	186	sec
Peak heat release after ignition	138.0	135.2	141.6	138.3	kW/m ²
Average heat at 60 s	48.0	48.8	47.7	48.1	kW/m ²

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TEST REPORT

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130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	20.2	19.4	19.9	19.8	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.6	3.5	3.6	3.6	MJ/m ²
Average effective heat of combustion	14.7	13.4	14.4	14.2	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.3	2.3	2	2.2	g
Mass remaining	0.3	0.2	0.0	0.2	g
Mass percentage pyrolysed	85.9	91.4	100.0	92.4	%
Mass loss	0.2	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.3	1.4	1.4	1.4	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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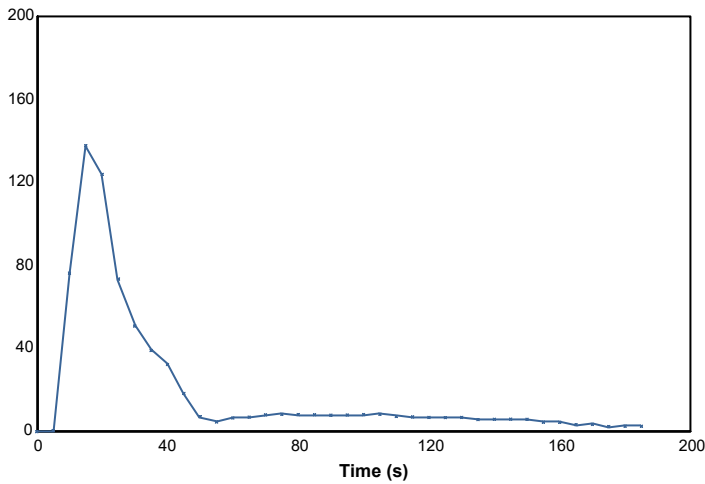
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

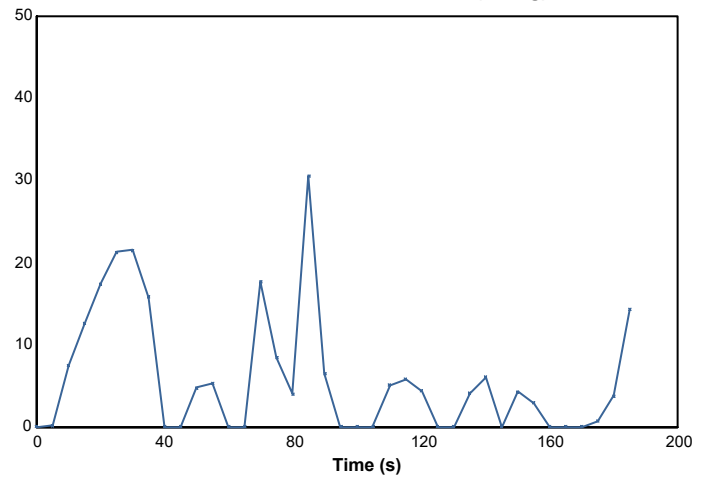
Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

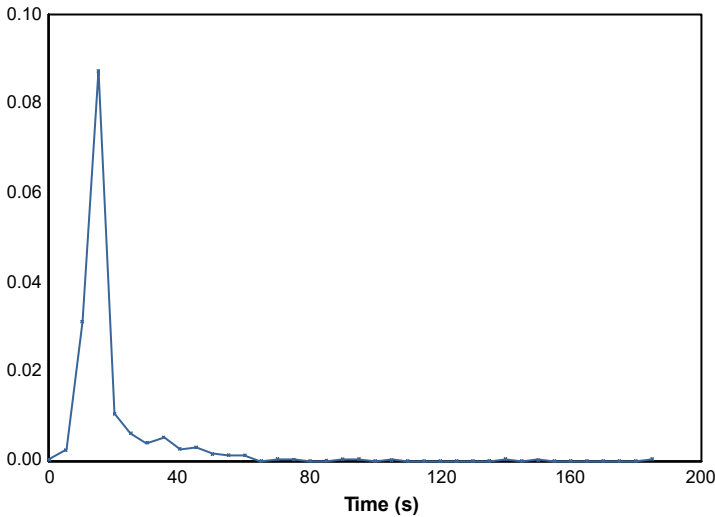
Heat release rate (kW/m²)



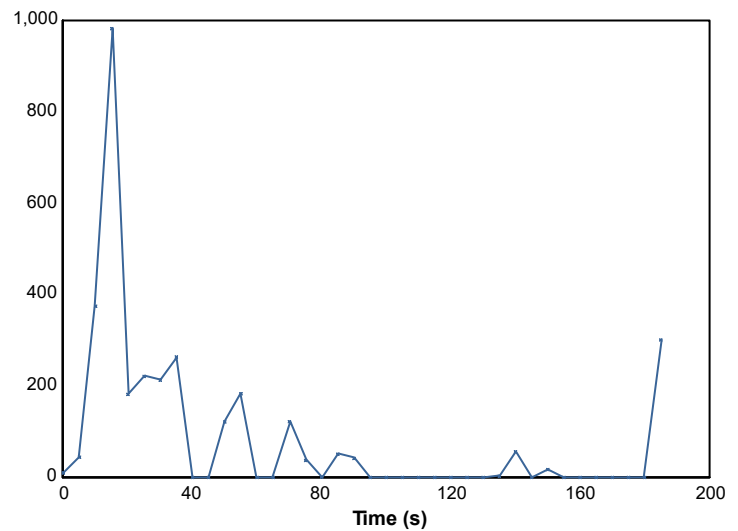
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

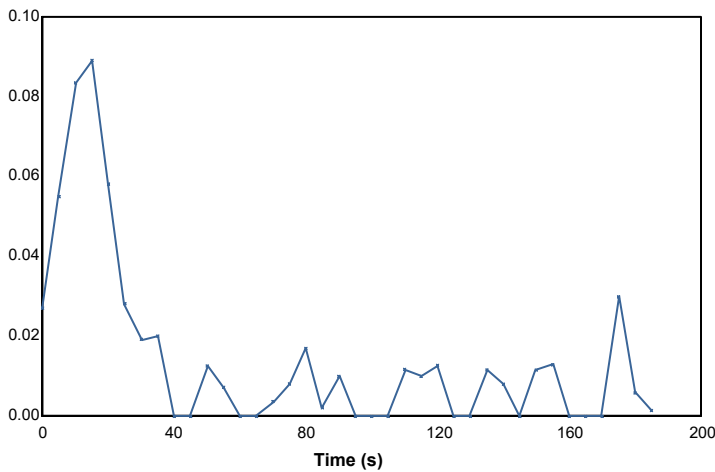
Phone (03) 9371 2400

TEST REPORT

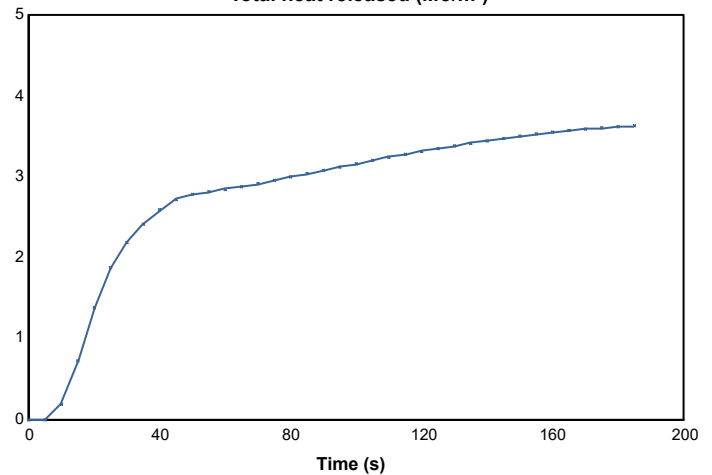
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

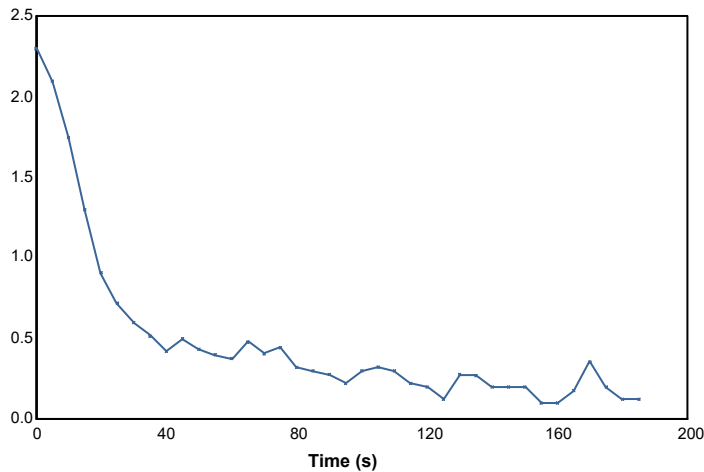
Mass loss rate (g/s)



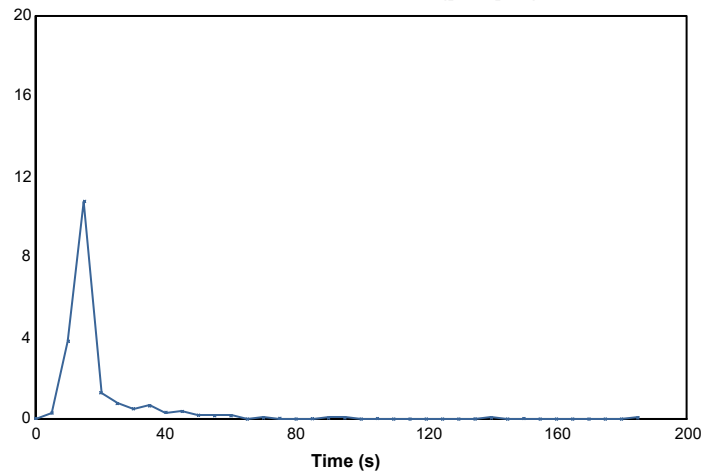
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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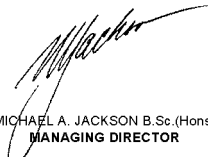
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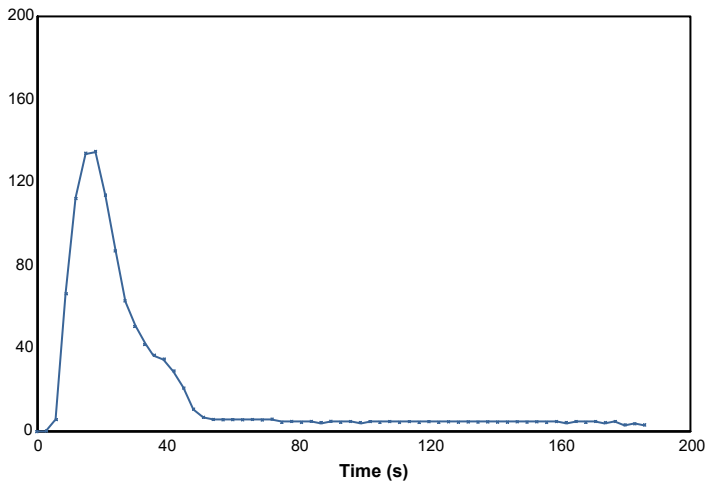
TEST REPORT

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130 / 140 Rue Rene Cauche
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FRANCE

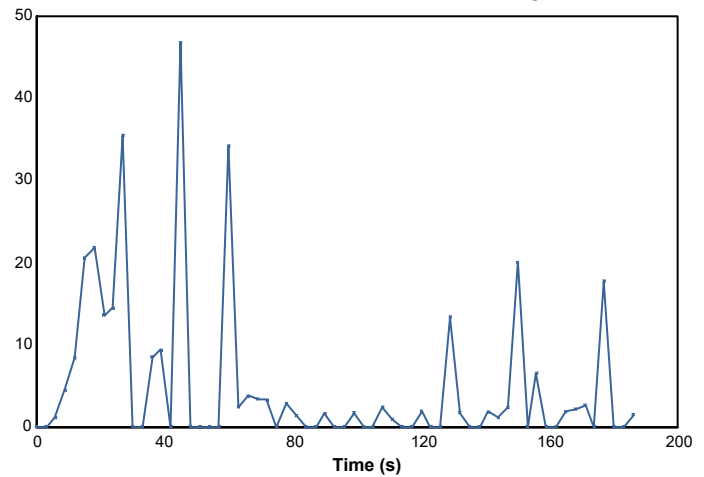
Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

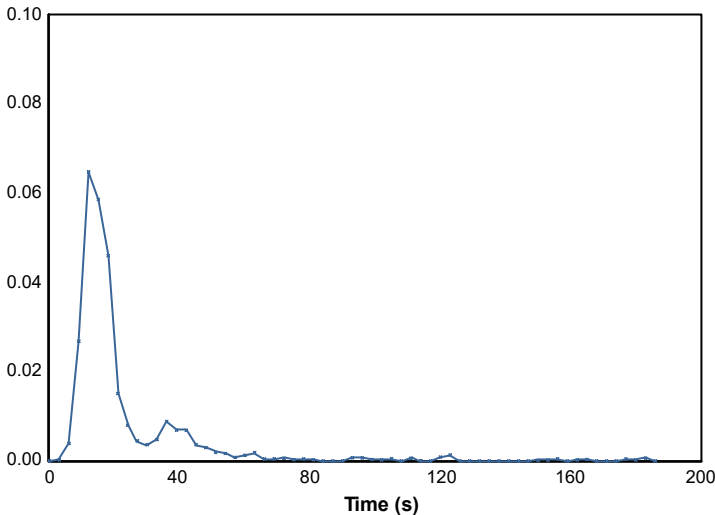
Heat release rate (kW/m²)



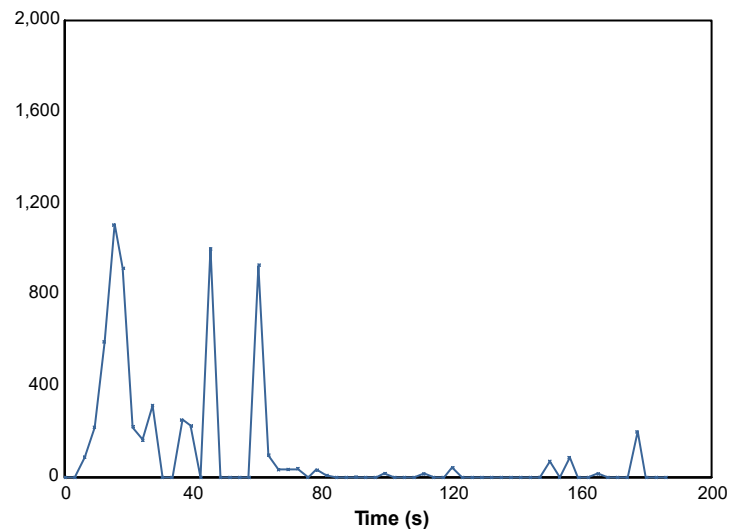
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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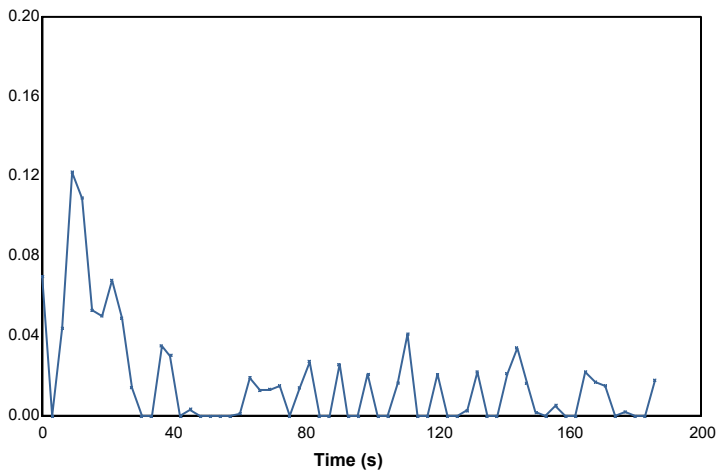
Phone (03) 9371 2400

TEST REPORT

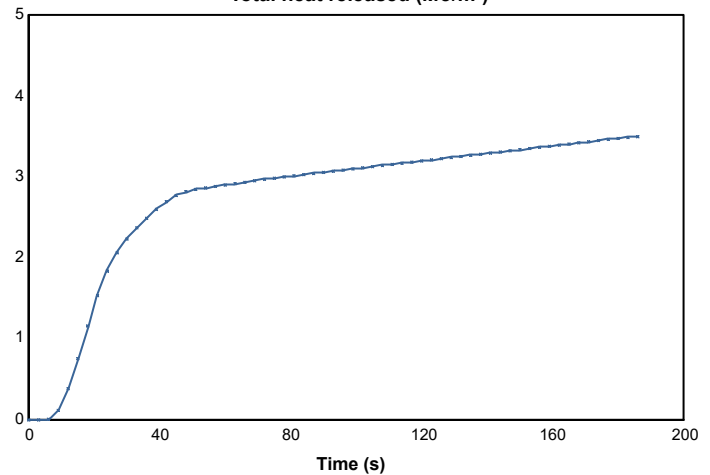
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

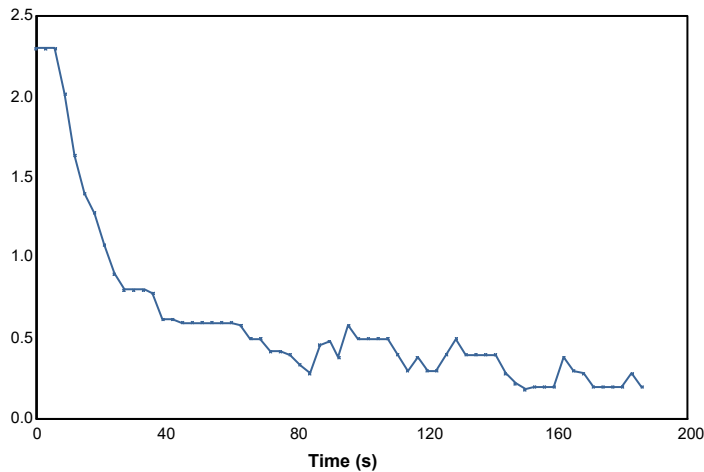
Mass loss rate (g/s)



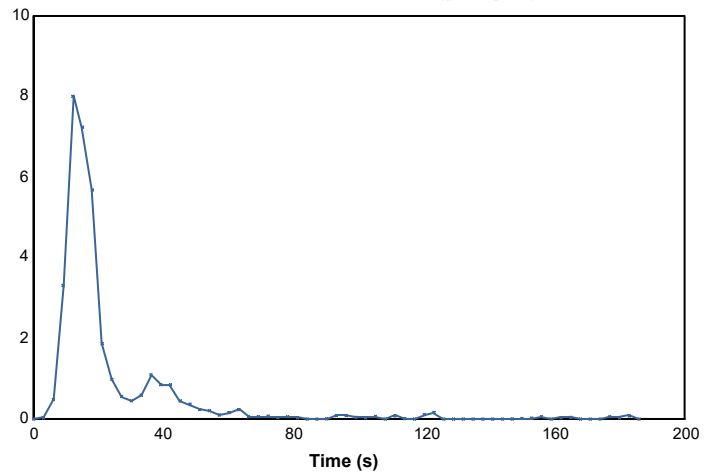
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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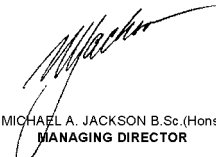
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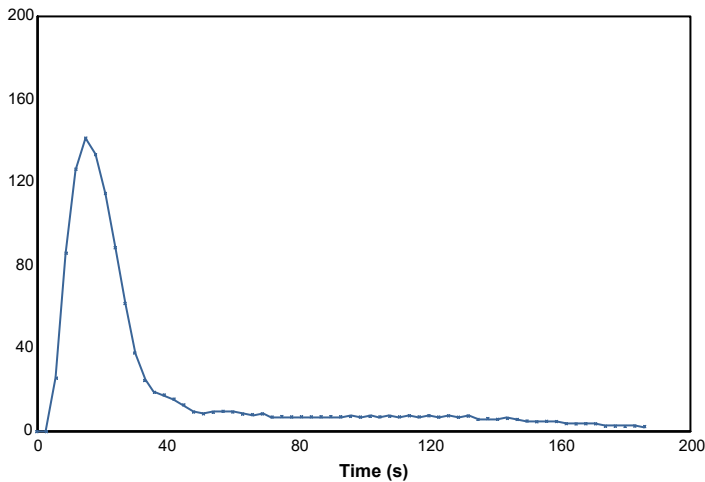
TEST REPORT

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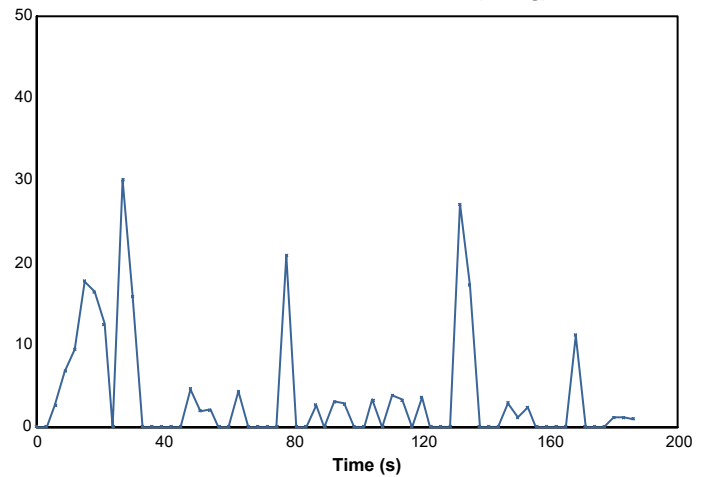
Test Number : 21-002649
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

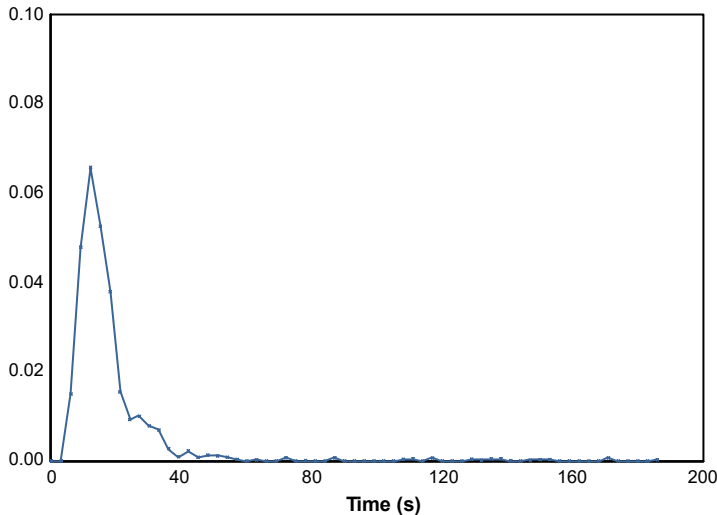
Heat release rate (kW/m²)



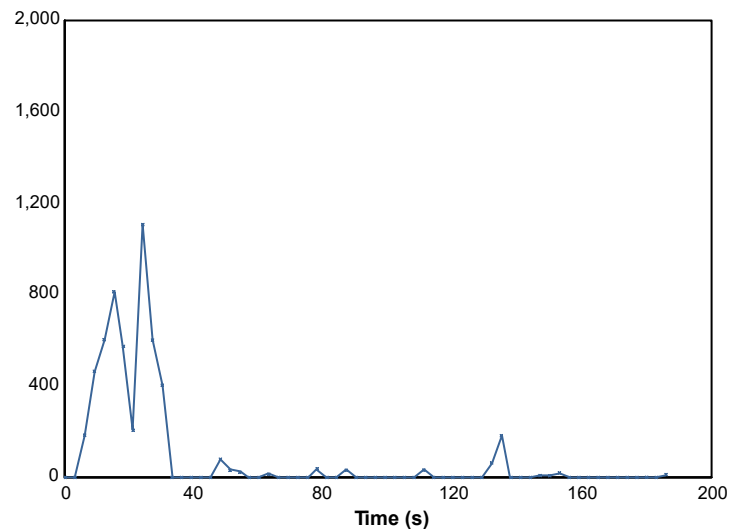
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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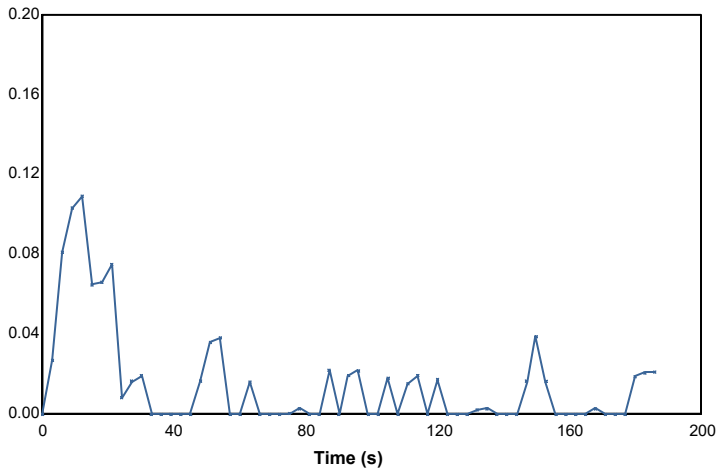
Phone (03) 9371 2400

TEST REPORT

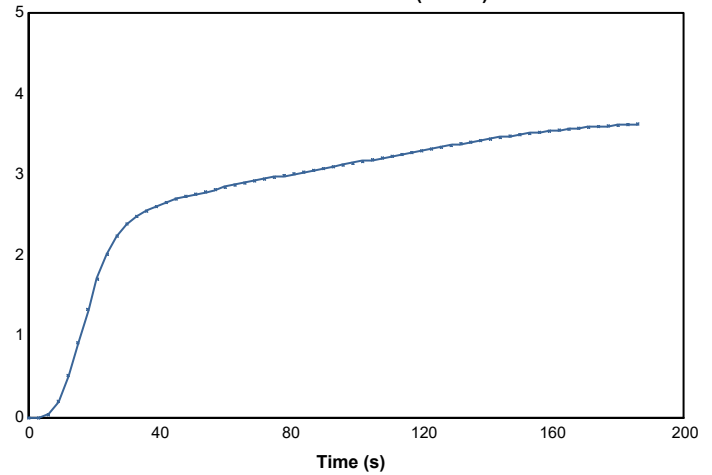
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130 / 140 Fue Rene Cauche
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Test Number : 21-002649
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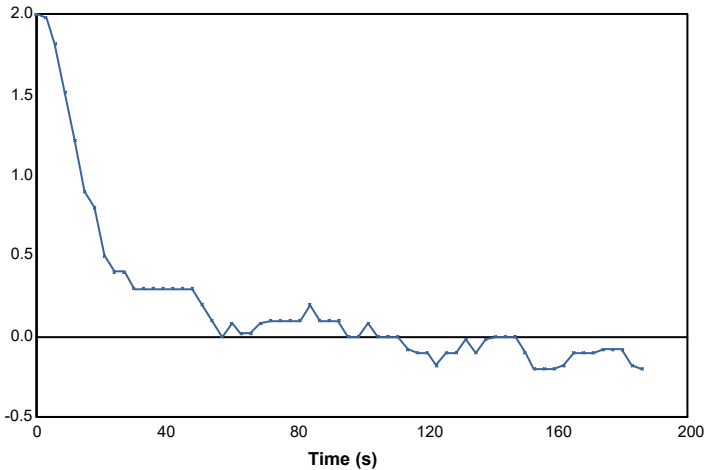
Mass loss rate (g/s)



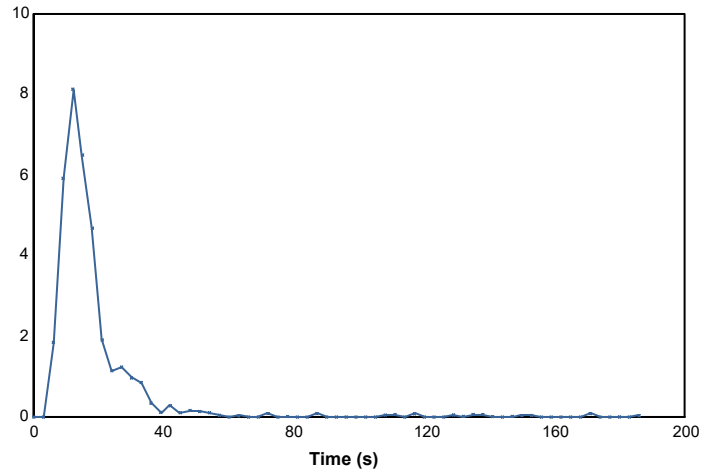
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "LX02 - Laque Noir"
Flexible Vinyl Film
Colour : Black
End Use : Stretched/Suspended Ceiling
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 357.3 m²/kg



Fiona McDonald
Testing Technologist

51936

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "LX02 - Laque Noir"
Flexible Vinyl Film
Colour : Black
End Use : Stretched/Suspended Ceiling
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-02-2021
Face Tested Gloss Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	20.3	21.6	21.6	21.1	kW/m ²
Average Specific extinction area	323.4	412.4	335.9	357.3	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	2	3	3	3	sec
Test duration	184	185	185	185	sec
Peak heat release after ignition	110.7	134.2	96.8	113.9	kW/m ²
Average heat at 60 s	48.6	50.8	47.0	48.8	kW/m ²
Average heat at 180 s	20.5	21.9	21.8	21.4	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²

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FRANCE

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Issue Date : 28/05/2021
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Total heat released	3.7	3.9	3.9	3.9	MJ/m ²
Average effective heat of combustion	12.1	13.1	13.8	13.0	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.3	2.4	2.2	2.3	g
Mass remaining	0.0	0.0	0.0	0.0	g
Mass percentage pyrolysed	100.0	100.0	100.0	100.0	%
Mass loss	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.7	1.6	1.5	1.6	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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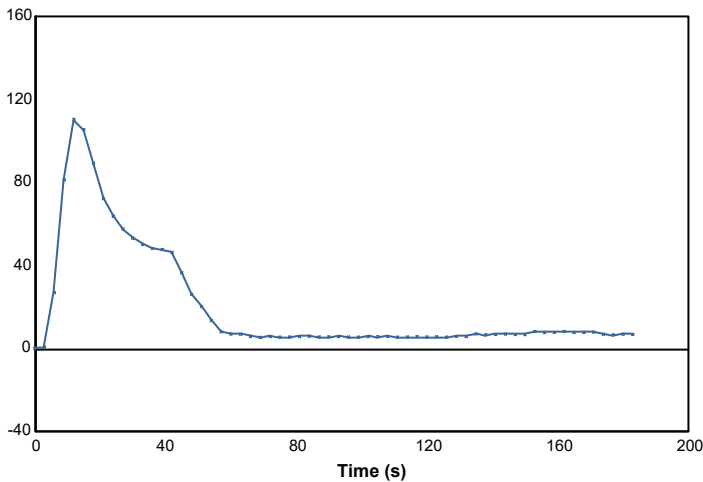
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FRANCE

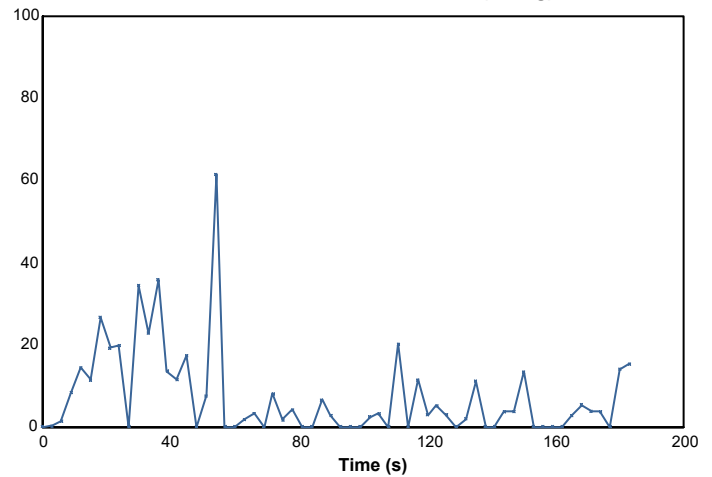
Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

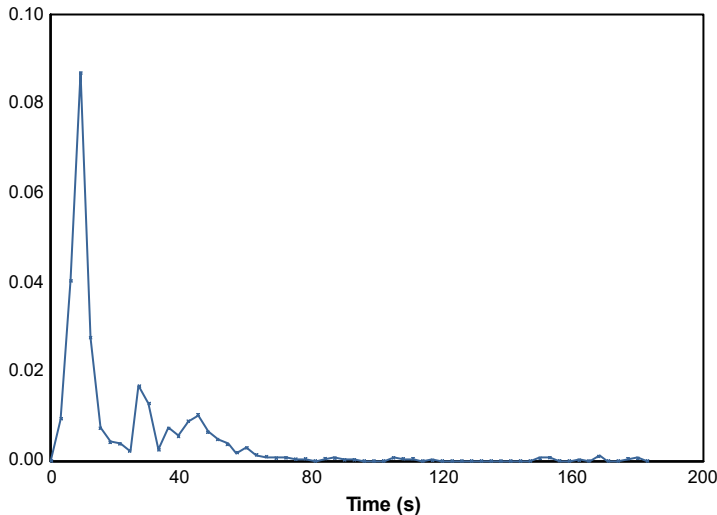
Heat release rate (kW/m²)



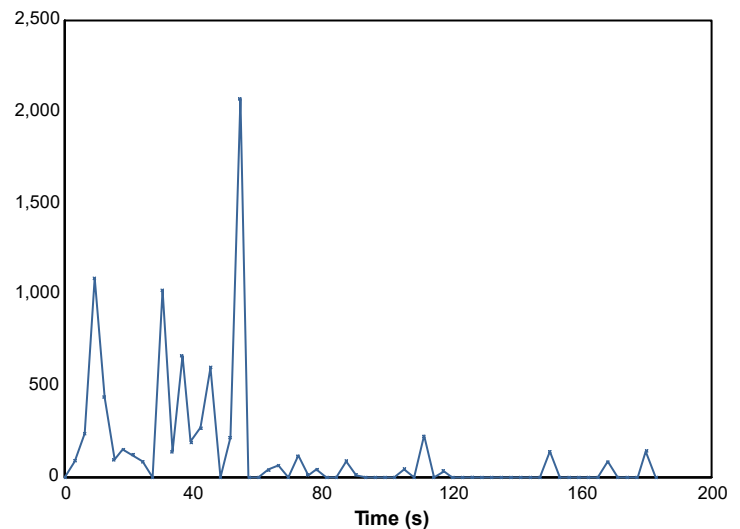
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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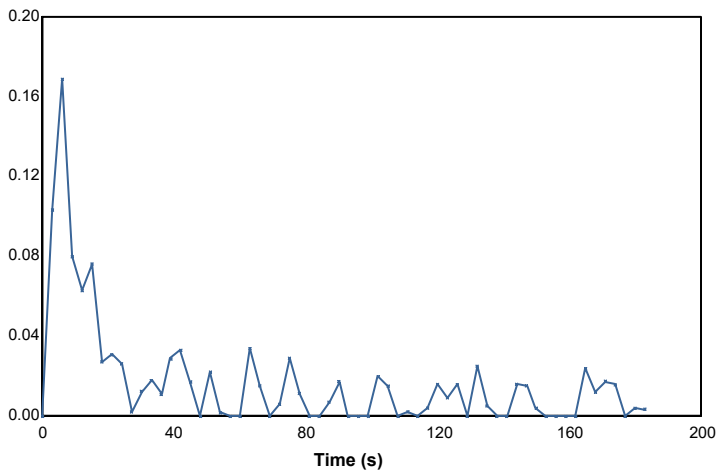
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TEST REPORT

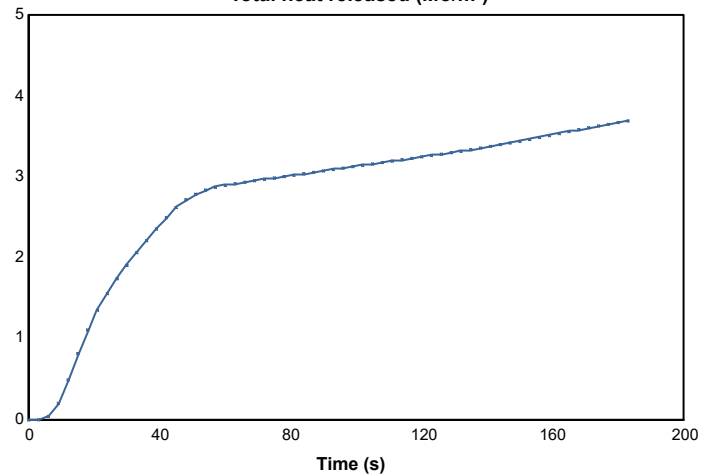
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FRANCE

Test Number : 21-002660
Issue Date : 28/05/2021
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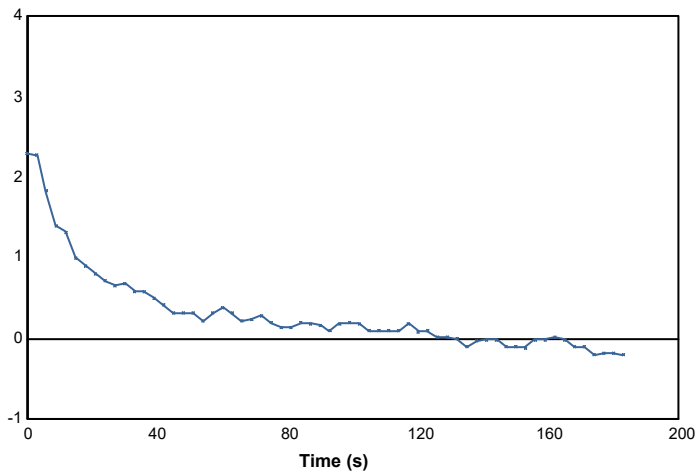
Mass loss rate (g/s)



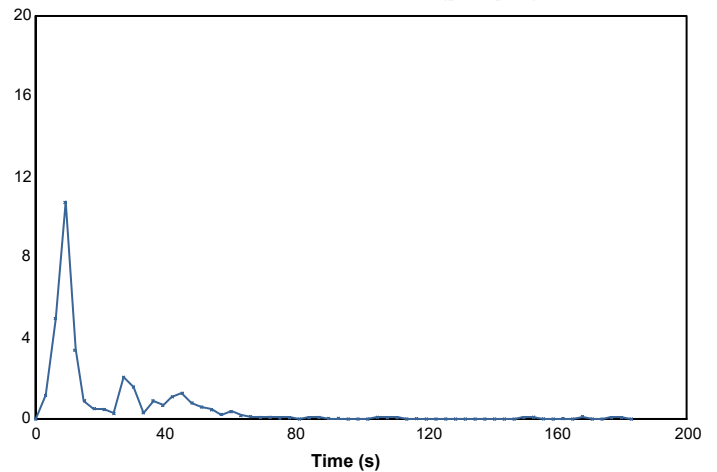
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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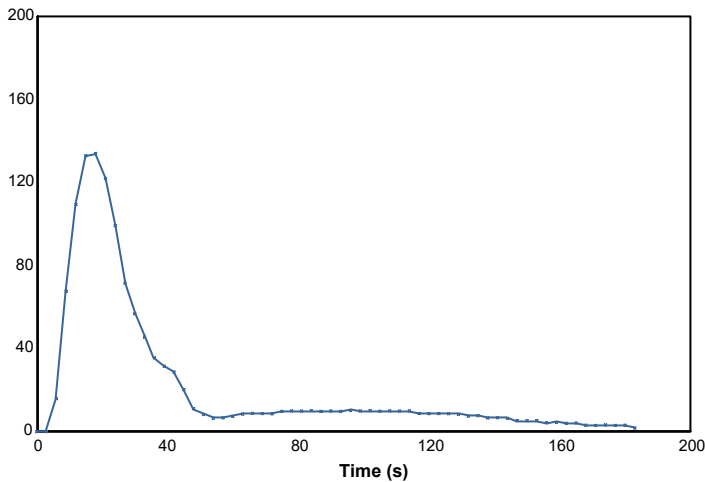
TEST REPORT

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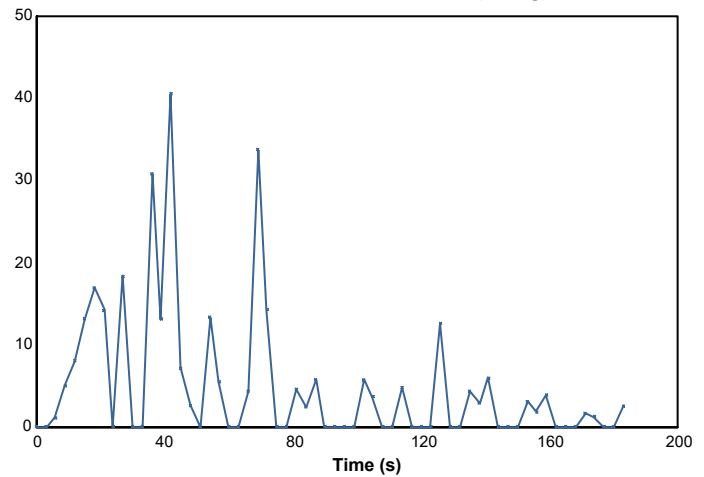
Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

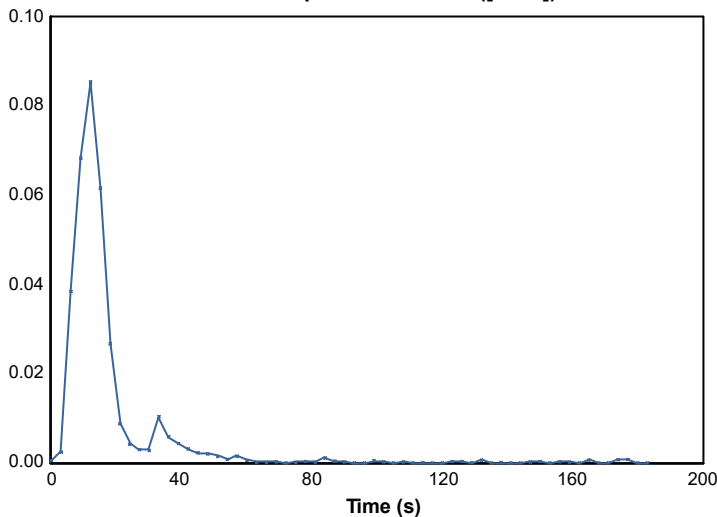
Heat release rate (kW/m²)



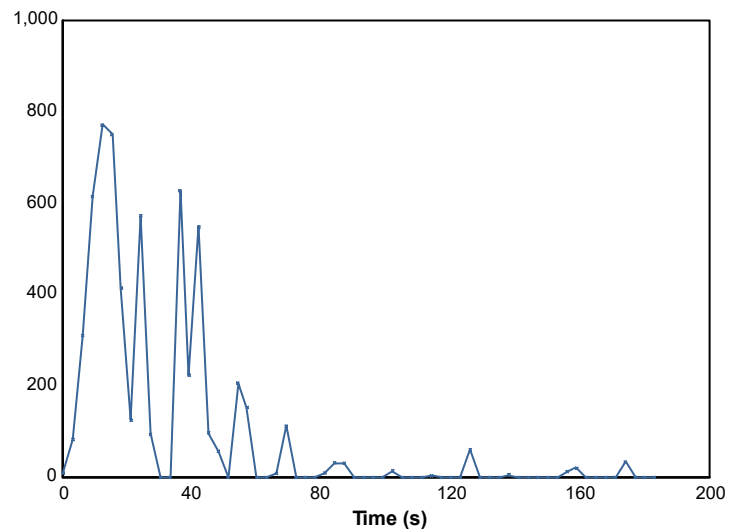
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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Fiona McDonald

APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

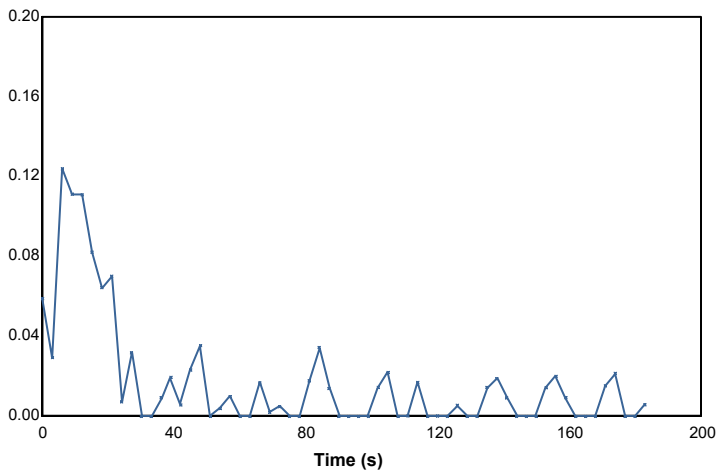
Phone (03) 9371 2400

TEST REPORT

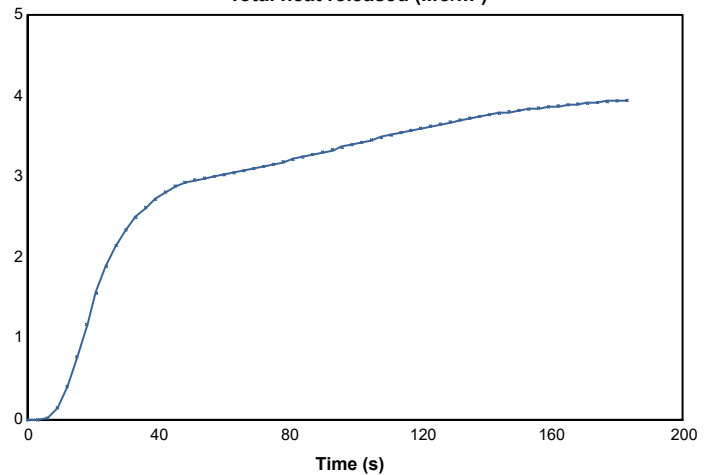
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

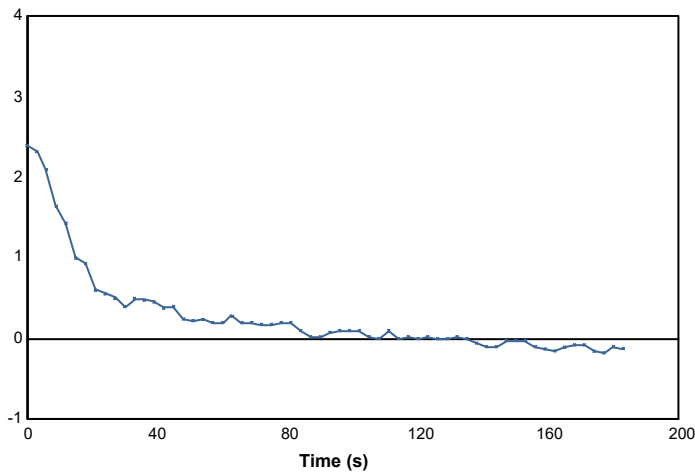
Mass loss rate (g/s)



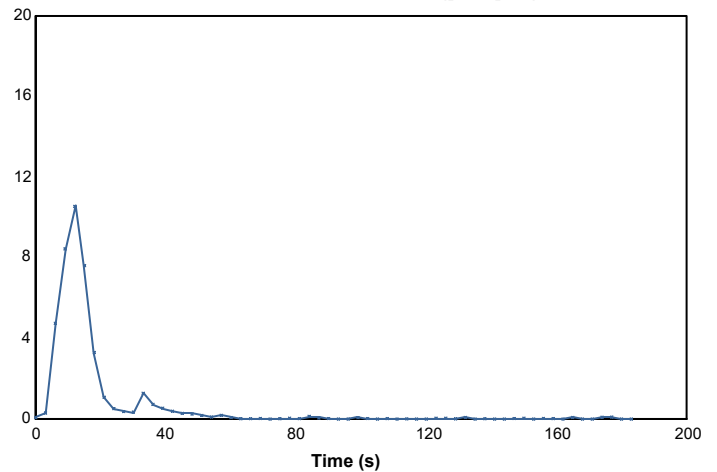
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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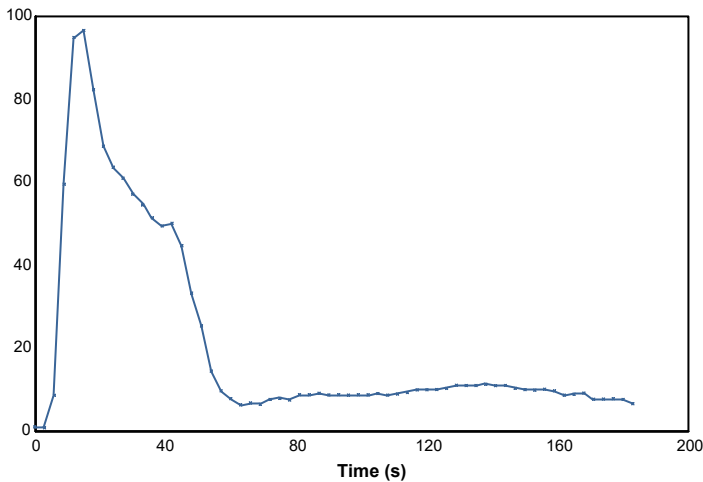
TEST REPORT

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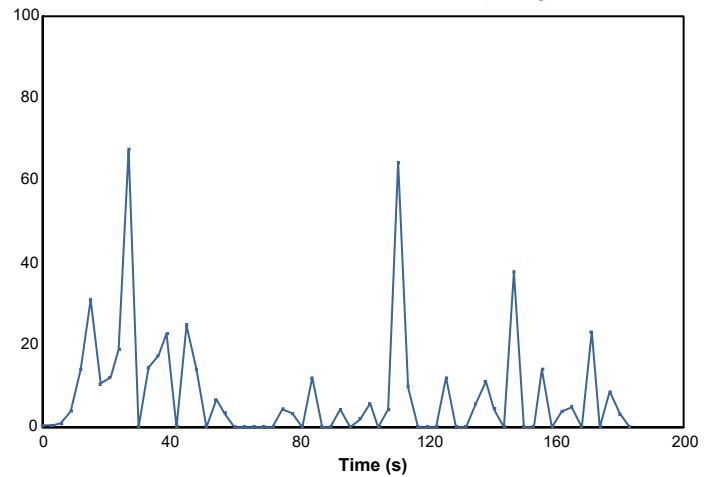
Test Number : 21-002660
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

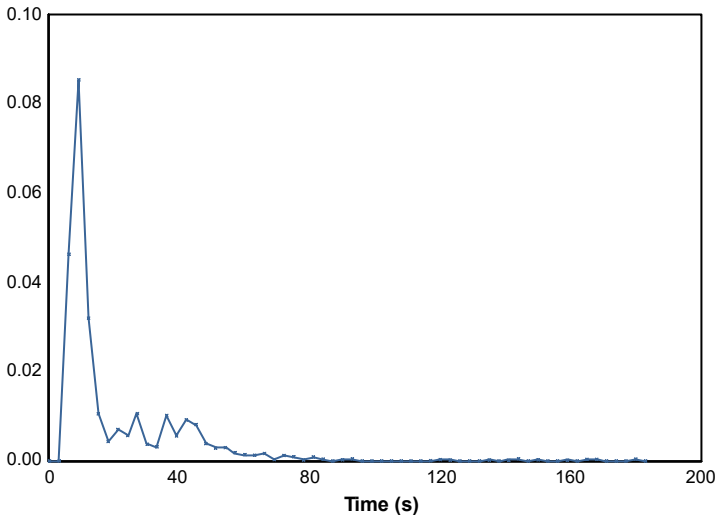
Heat release rate (kW/m²)



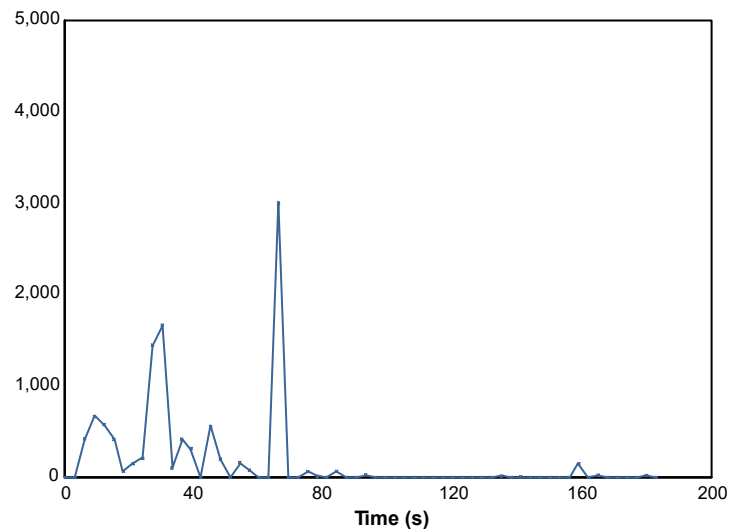
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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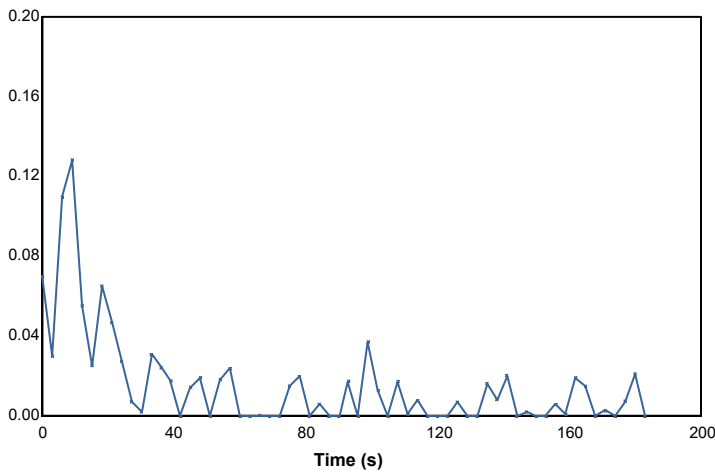
Phone (03) 9371 2400

TEST REPORT

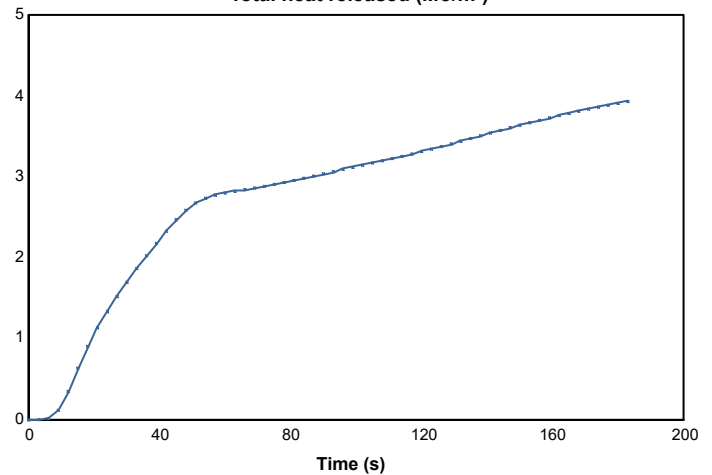
Client : NEWMAT S.A.S.
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Test Number : 21-002660
Issue Date : 28/05/2021
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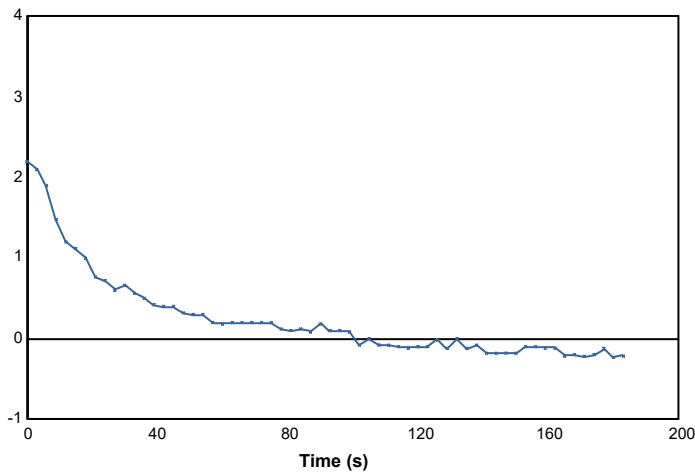
Mass loss rate (g/s)



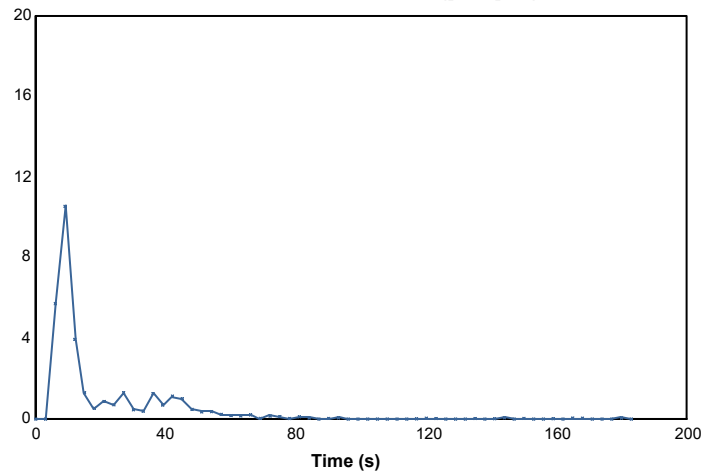
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002646
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "M15 Blancmat"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 210g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 568.5 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002646
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "M15 Blancmat"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 210g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	17.1	15.0	14.6	15.6	kW/m ²
Average Specific extinction area	491.9	639.5	574.0	568.5	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	13	9	12	11	sec
Test duration	200	196	202	199	sec
Peak heat release after ignition	89.9	72.3	76.4	79.5	kW/m ²
Average heat at 60 s	39.2	34.8	32.6	35.5	kW/m ²

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TEST REPORT

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130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002646
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	17.5	15.5	15.3	16.1	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.3	2.8	2.8	3.0	MJ/m ²
Average effective heat of combustion	23.5	15.2	15.7	18.1	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.2	2.1	2	2.1	g
Mass remaining	1.0	0.6	0.5	0.7	g
Mass percentage pyrolysed	52.6	72.3	73.3	66.1	%
Mass loss	0.1	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	0.7	1.0	1.0	0.9	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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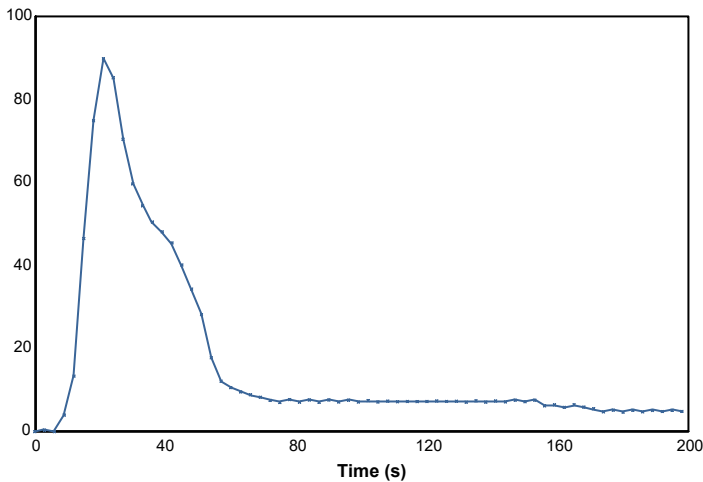
TEST REPORT

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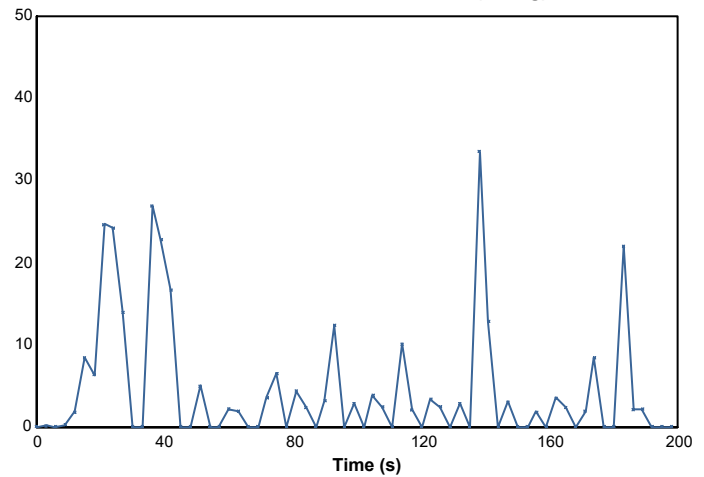
Test Number : 21-002646
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

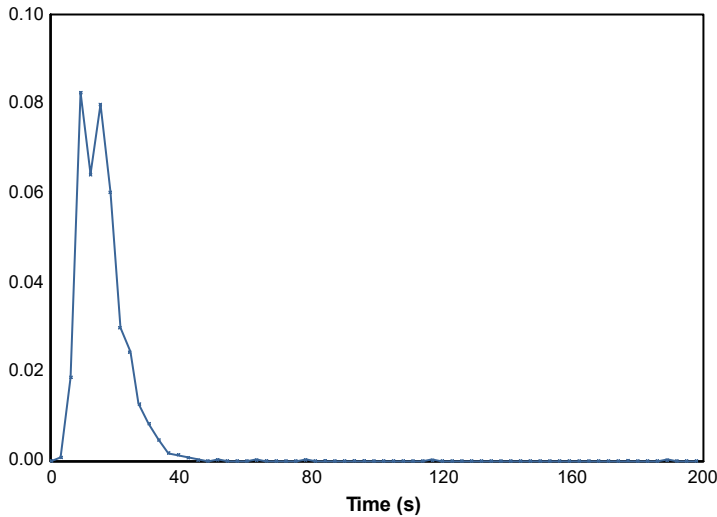
Heat release rate (kW/m²)



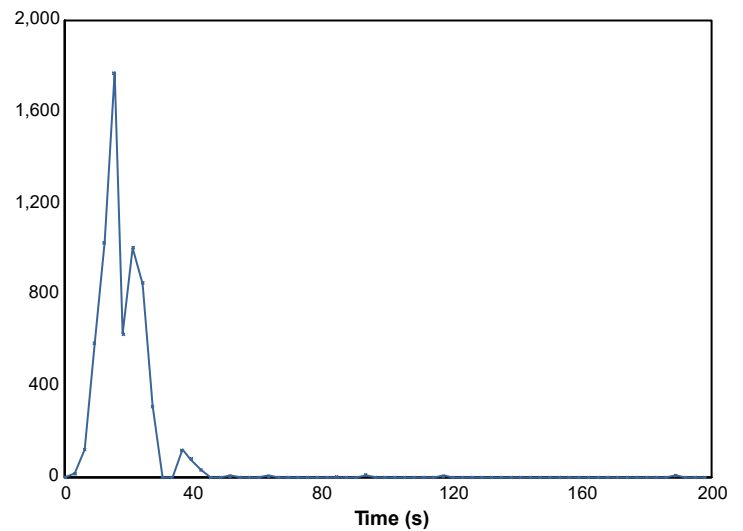
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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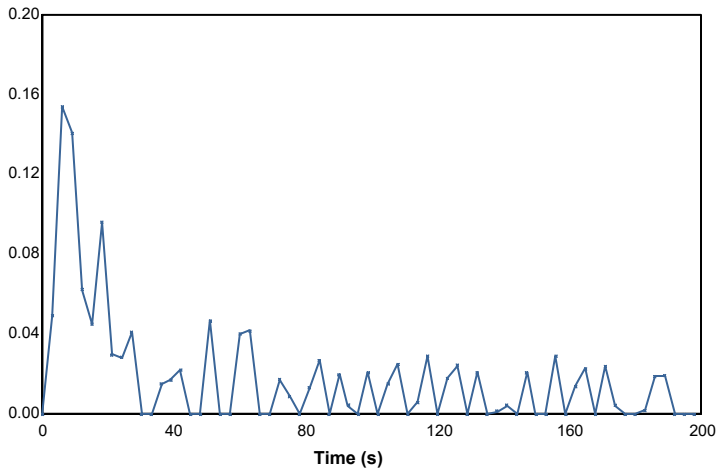
Phone (03) 9371 2400

TEST REPORT

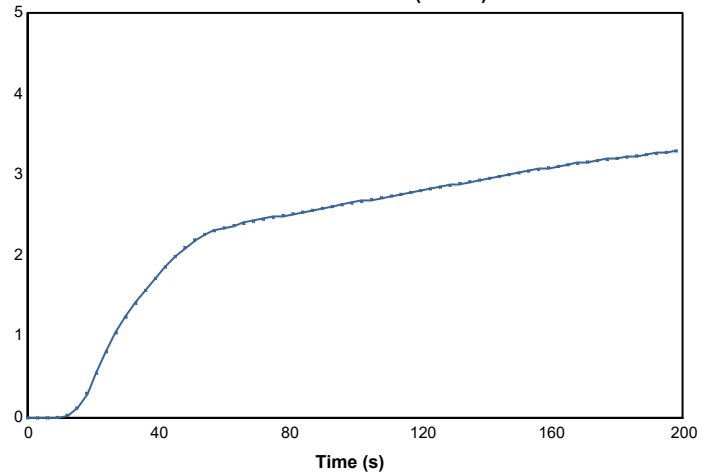
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FRANCE

Test Number : 21-002646
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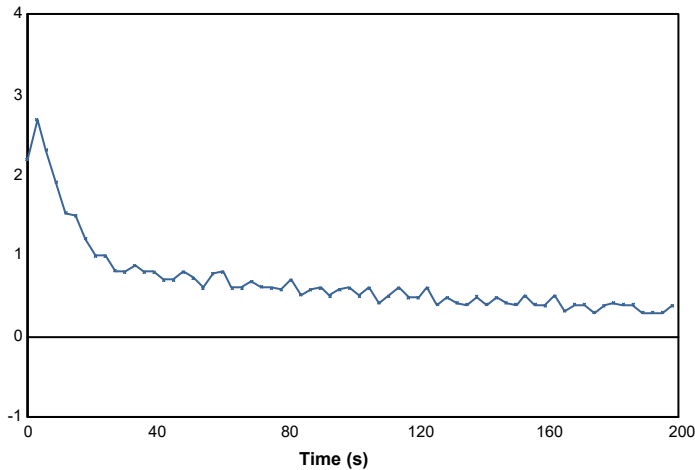
Mass loss rate (g/s)



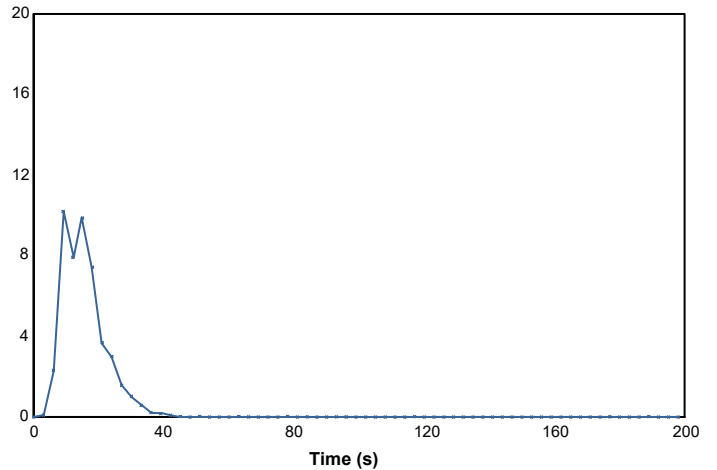
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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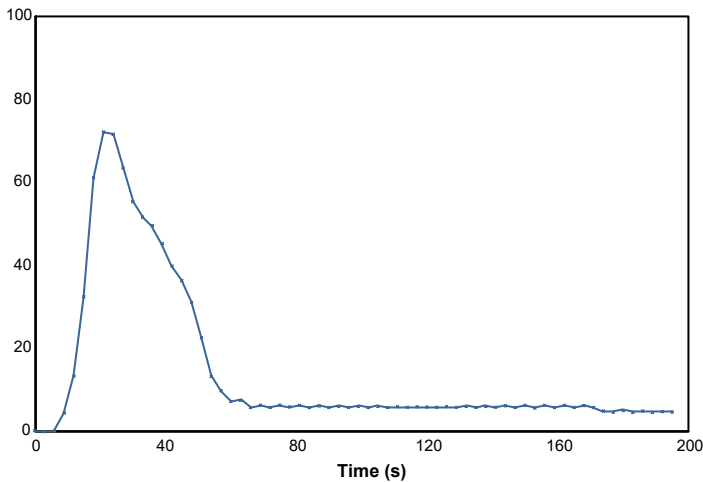
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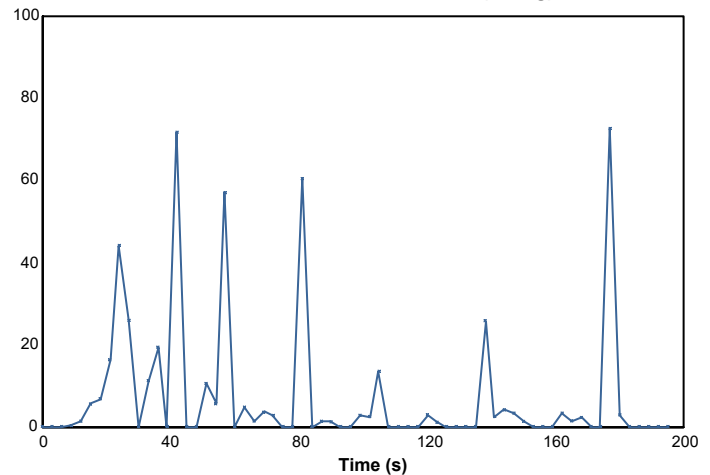
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

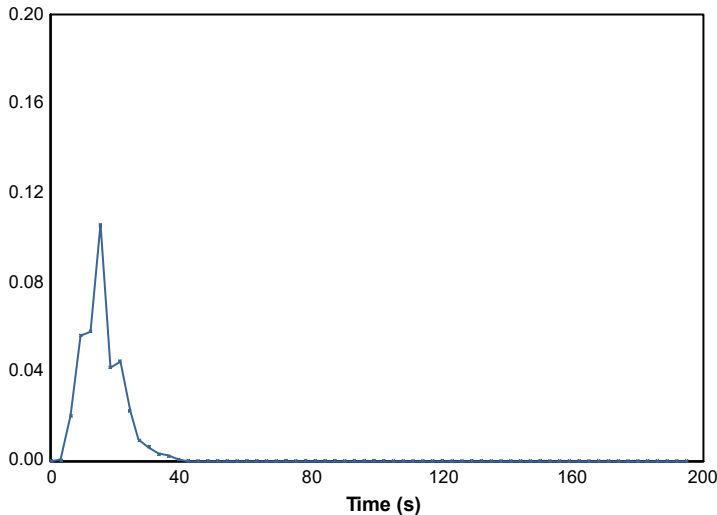
Heat release rate (kW/m²)



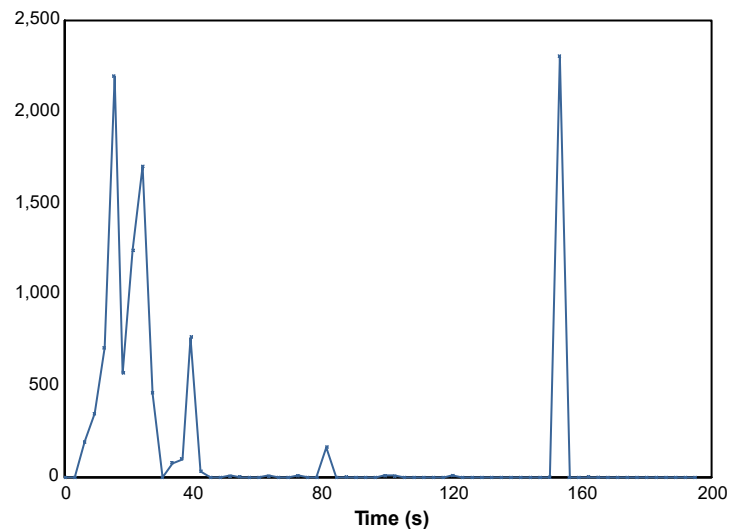
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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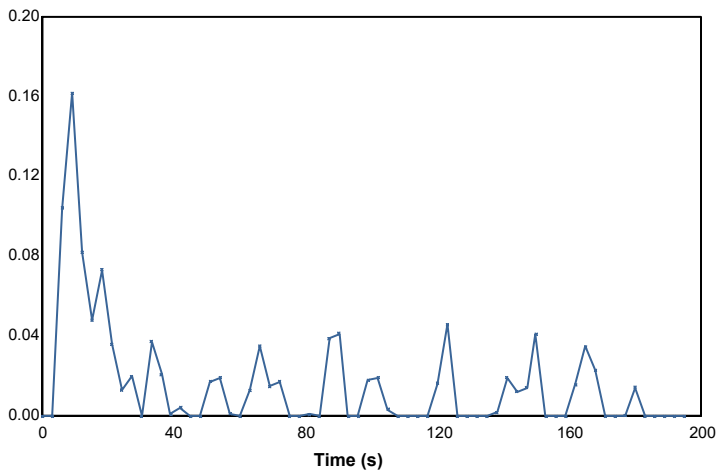
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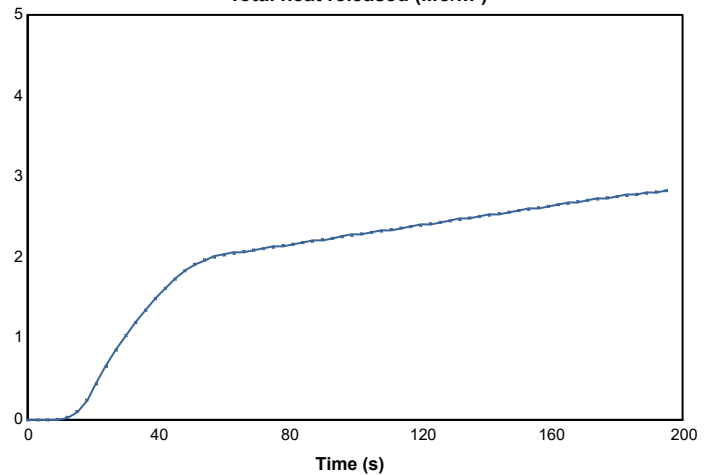
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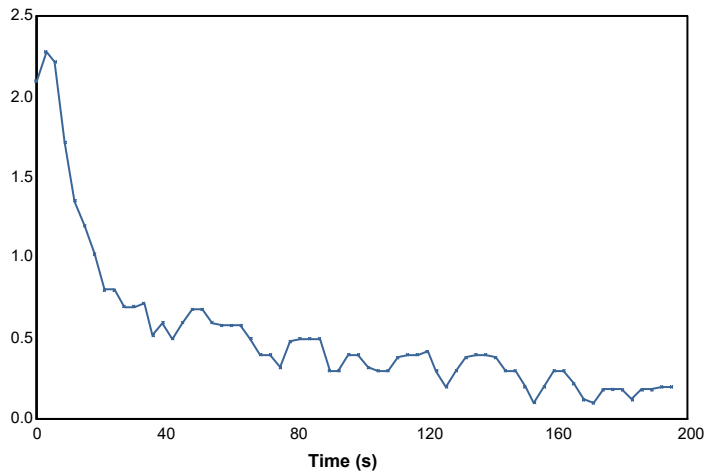
Mass loss rate (g/s)



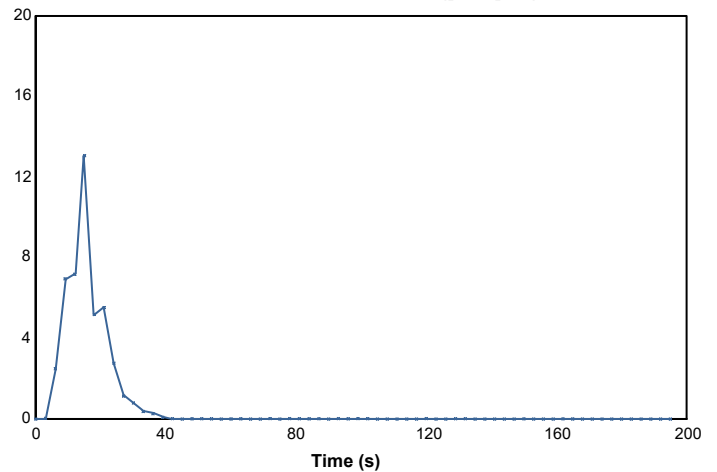
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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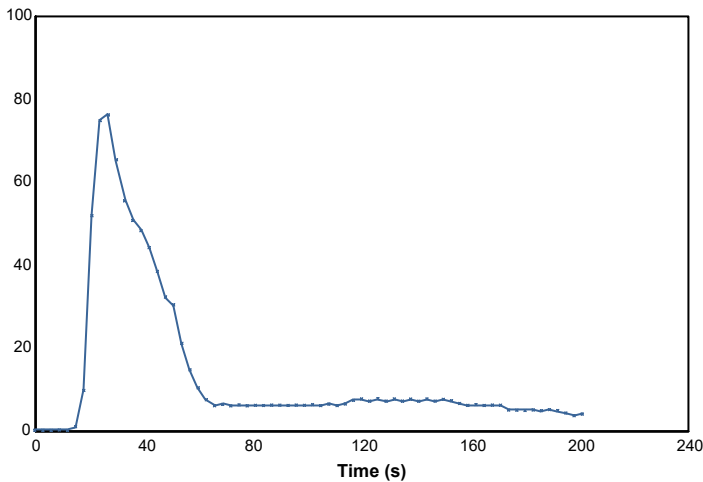
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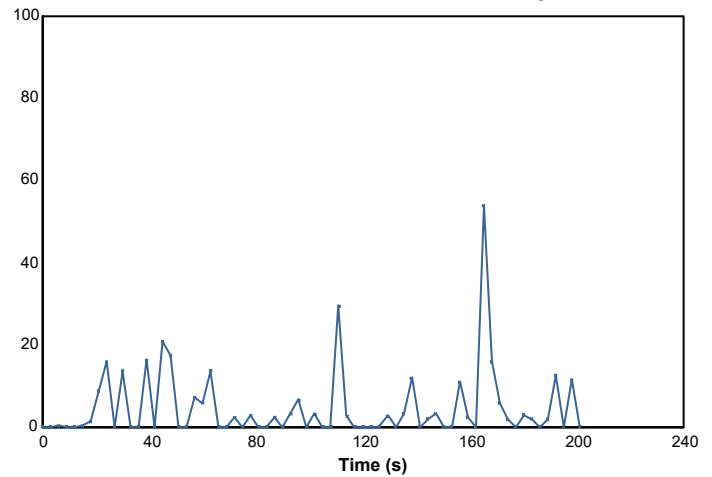
Test Number : 21-002646
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Specimen : 3

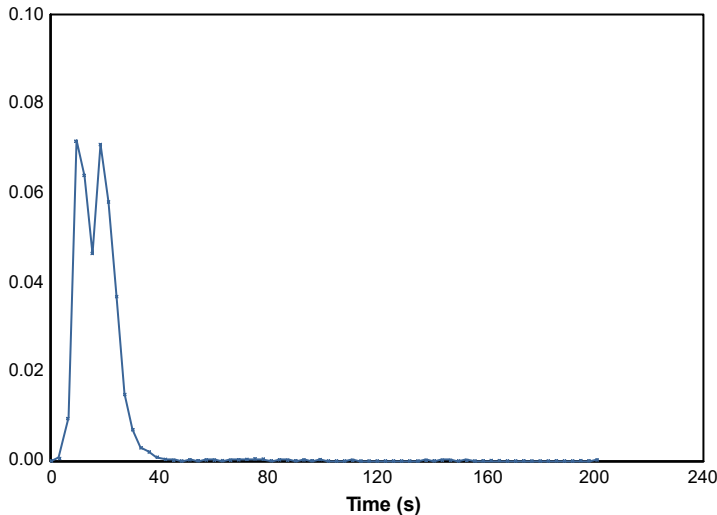
Heat release rate (kW/m²)



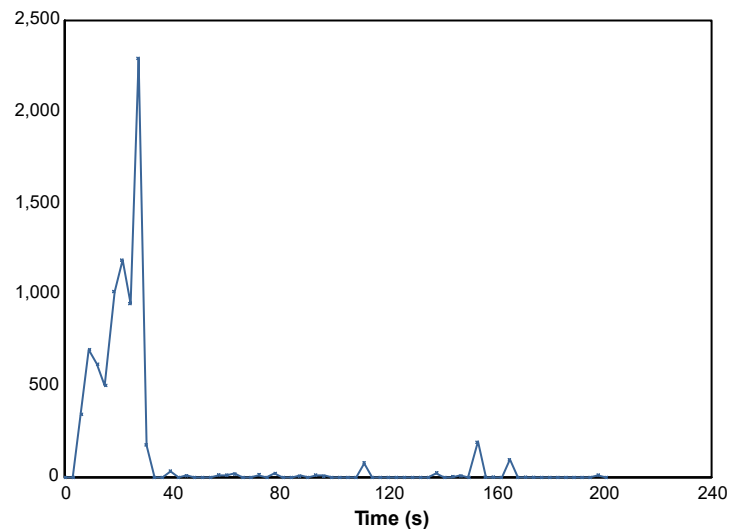
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

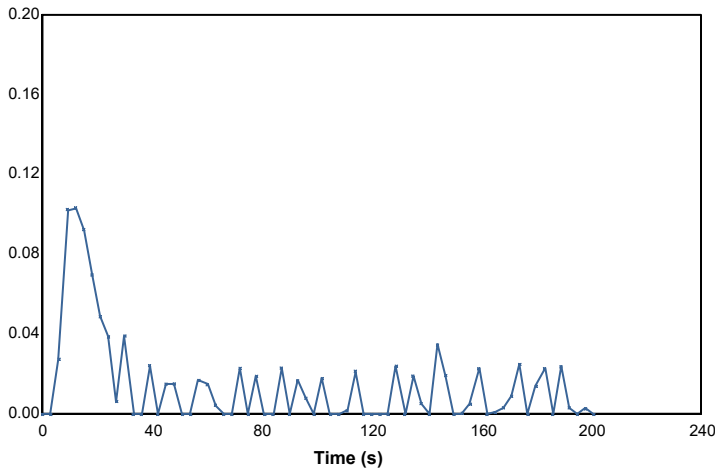
Phone (03) 9371 2400

TEST REPORT

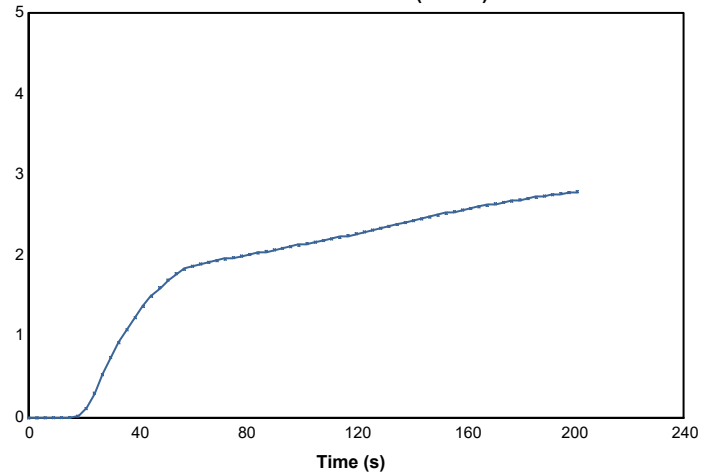
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002646
Issue Date : 28/05/2021
Print Date : 28/05/2021

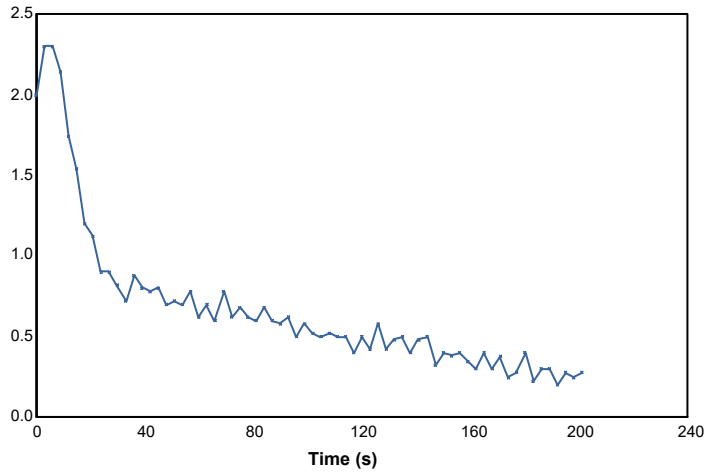
Mass loss rate (g/s)



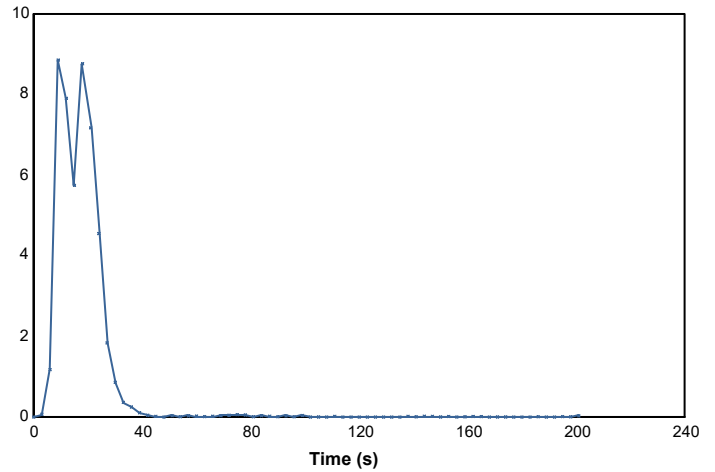
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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51921

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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sponsor Product Clients Ref : "M20 Ebene"
Flexible vinyl film
Colour : Black
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 180g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 556.4 m²/kg



Chris Campbell
Client Relations Manager

51918

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Phone (03) 9371 2400

TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "M20 Ebene"
Flexible vinyl film
Colour : Black
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 31-08-2020
Face Tested Black

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	15.0	12.9	16.1	14.7	kW/m ²
Average Specific extinction area	414.6	636.2	618.5	556.4	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	13	10	10	11	sec
Test duration	244	234	201	226	sec
Peak heat release after ignition	117.2	100.2	92.5	103.3	kW/m ²
Average heat at 60 s	38.2	36.2	37.6	37.3	kW/m ²

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 180 s	18.2	15.3	16.7	16.7	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.7	2.9	3.1	3.2	MJ/m ²
Average effective heat of combustion	30.5	17.6	20.3	22.8	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.3	1.8	2.2	2.1	g
Mass remaining	1.1	0.0	0.8	0.6	g
Mass percentage pyrolysed	52.2	100.0	63.6	71.9	%
Mass loss	0.1	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	0.5	0.7	0.8	0.7	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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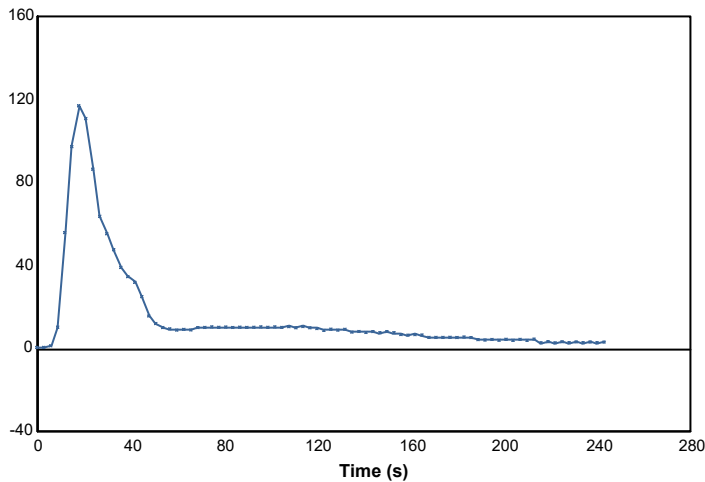
TEST REPORT

Client : NEWMAT S.A.S.
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FRANCE

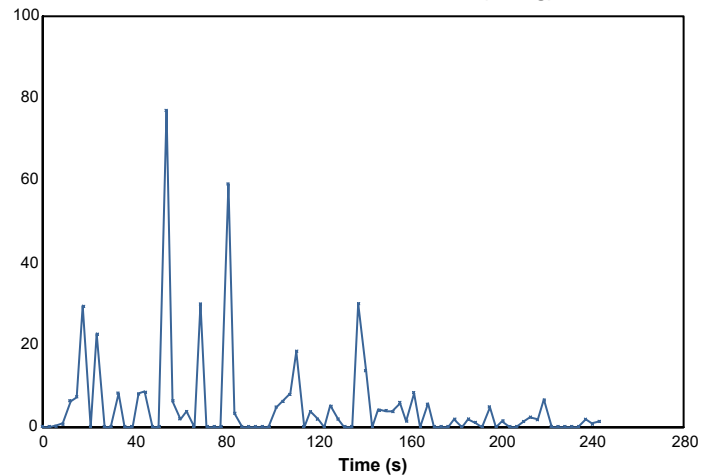
Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

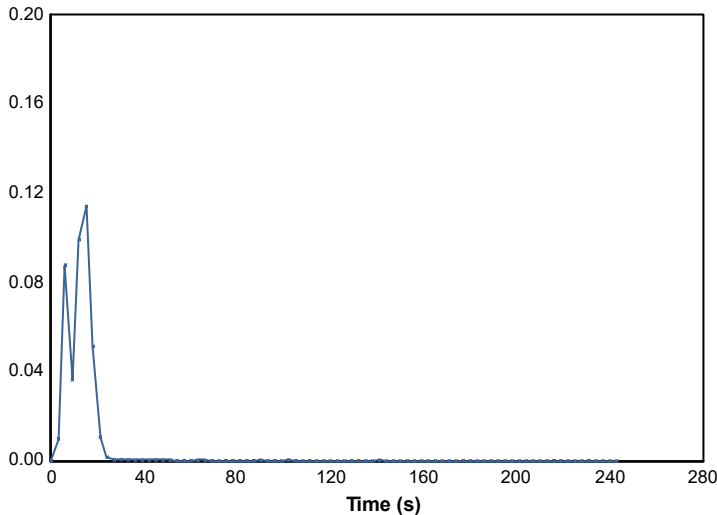
Heat release rate (kW/m²)



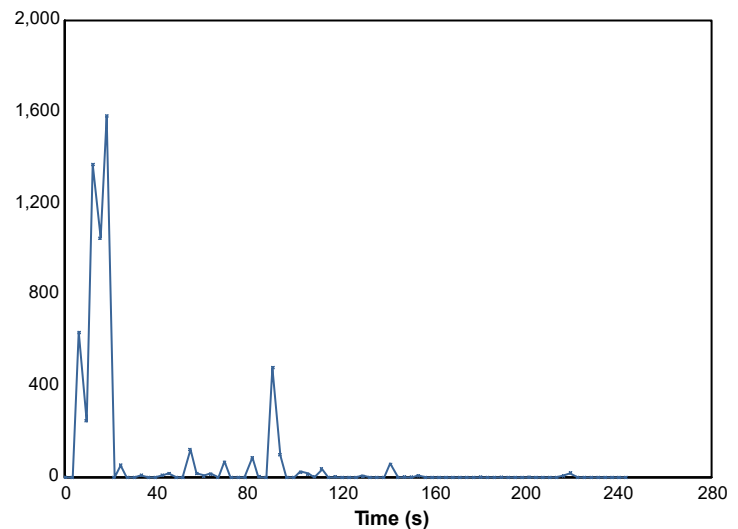
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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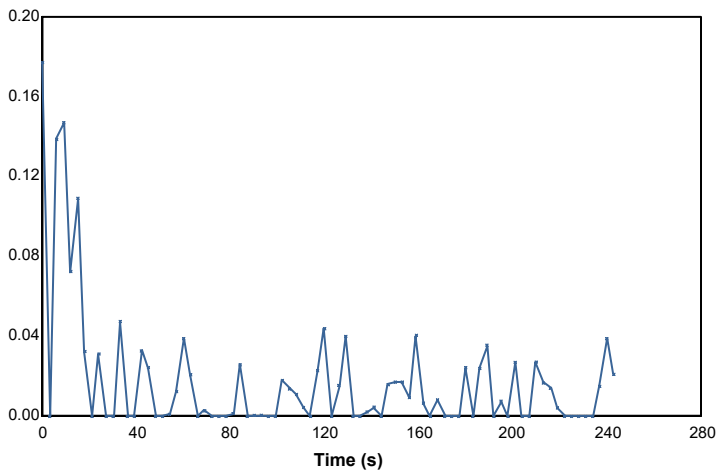
Phone (03) 9371 2400

TEST REPORT

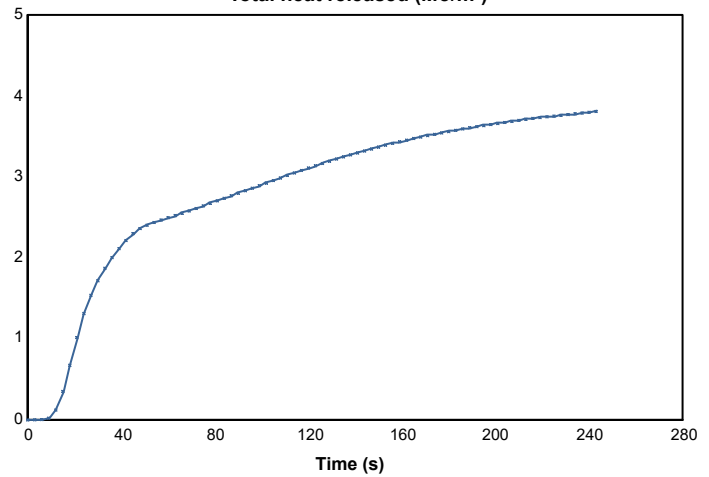
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

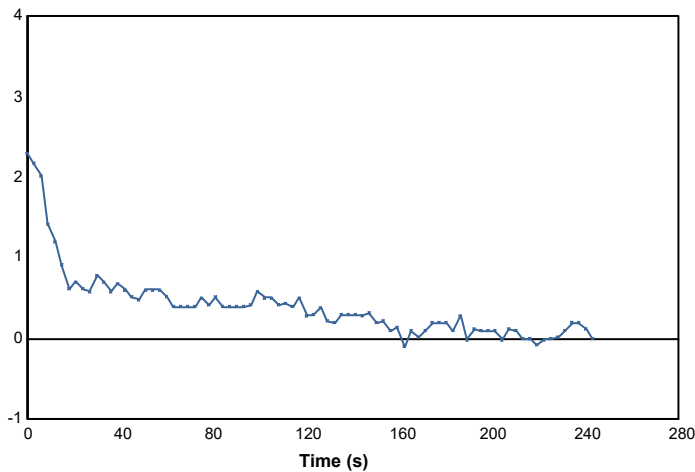
Mass loss rate (g/s)



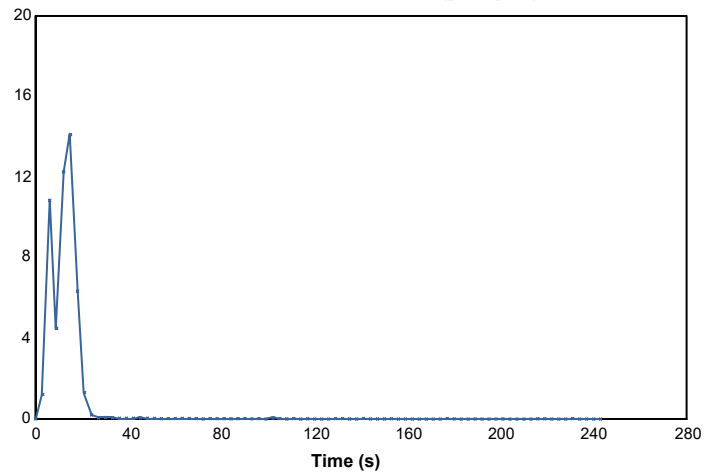
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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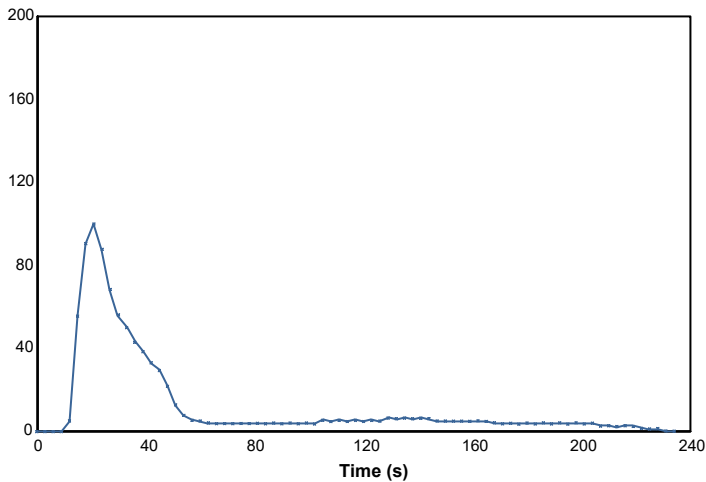
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

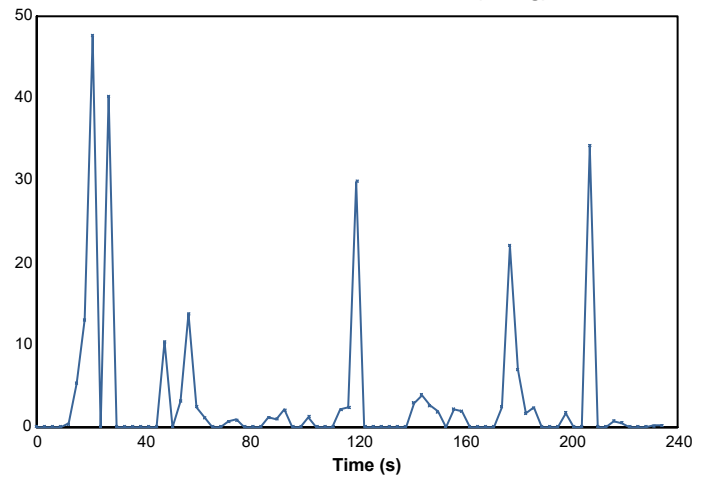
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Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 2

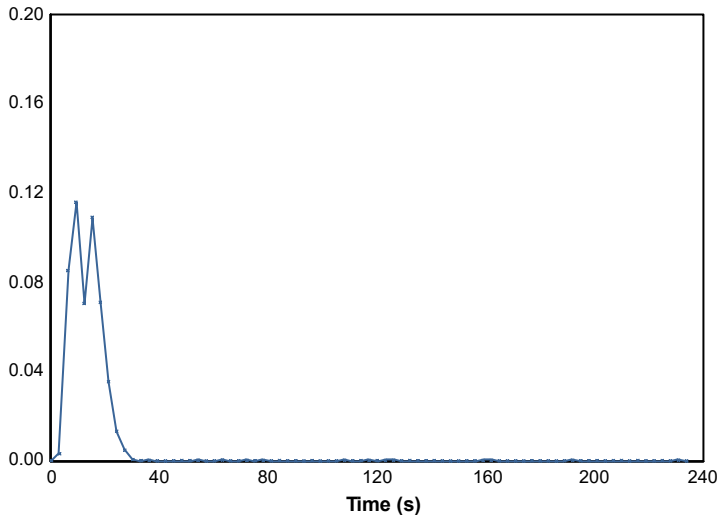
Heat release rate (kW/m²)



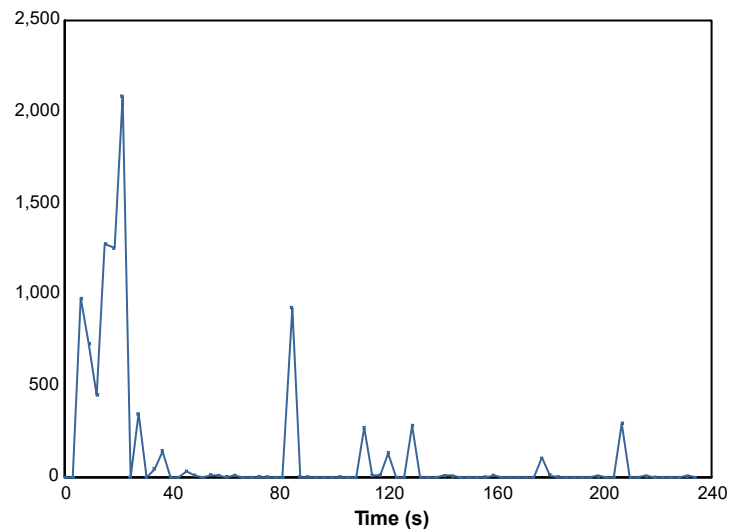
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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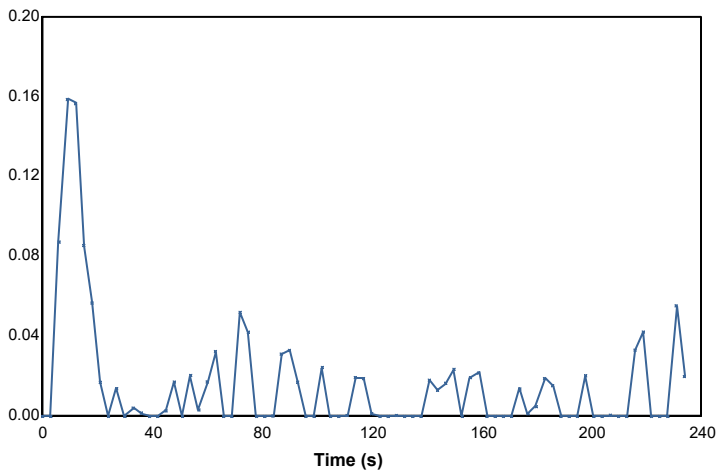
Phone (03) 9371 2400

TEST REPORT

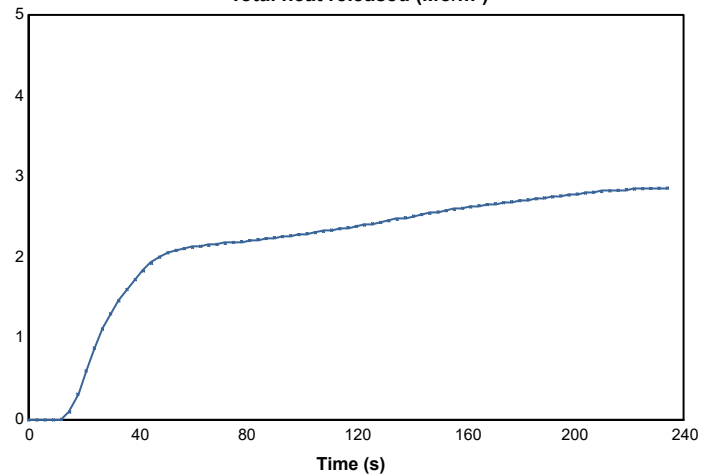
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

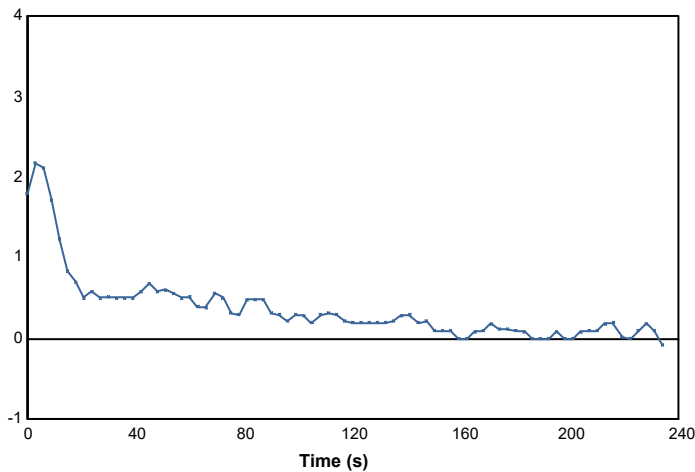
Mass loss rate (g/s)



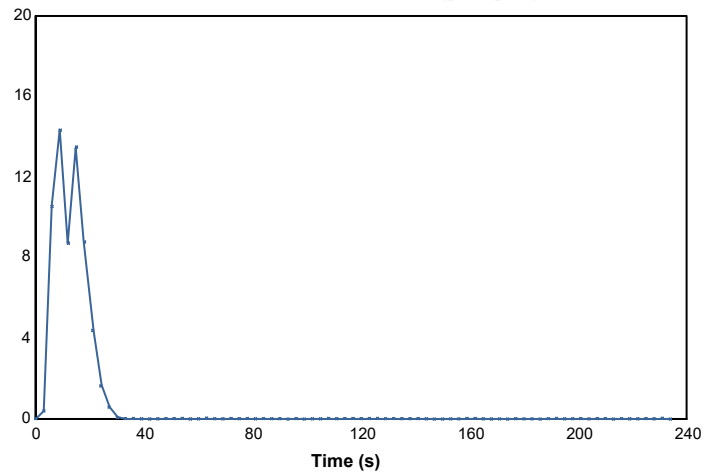
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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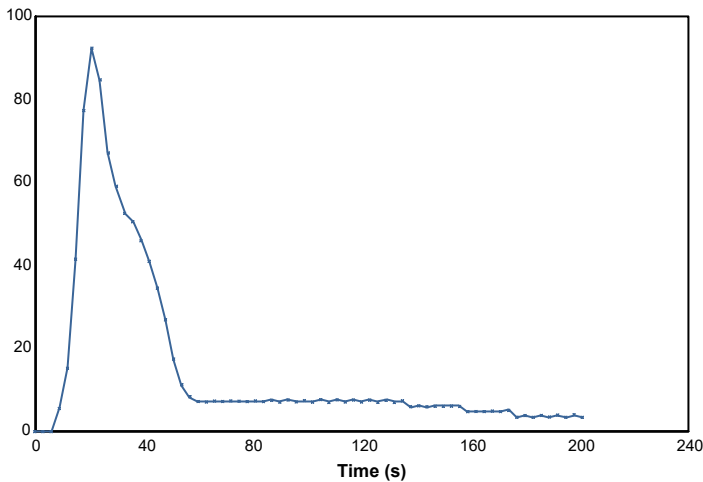
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

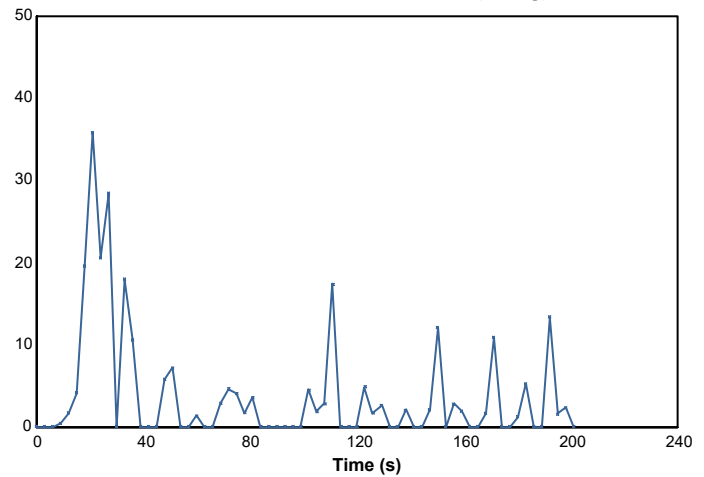
Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

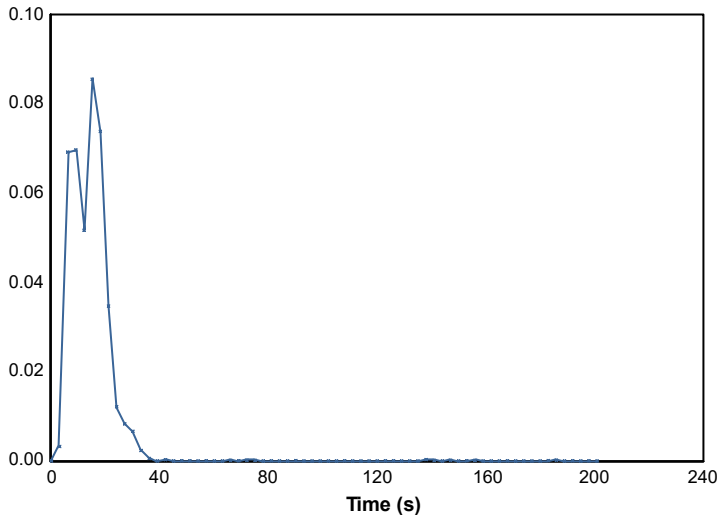
Heat release rate (kW/m²)



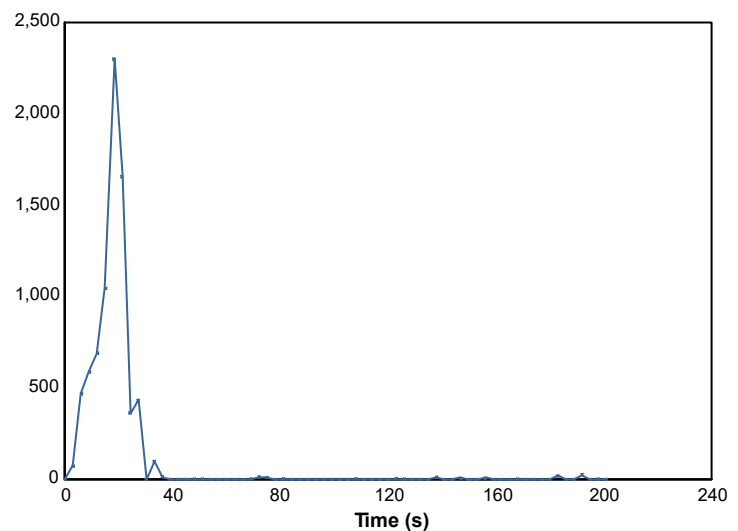
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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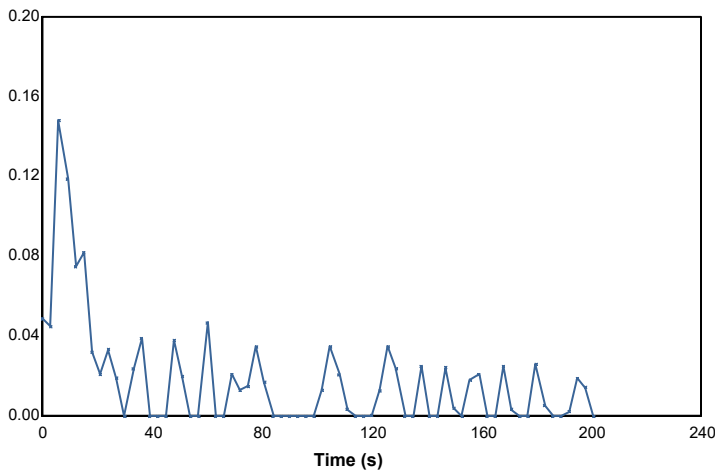
Phone (03) 9371 2400

TEST REPORT

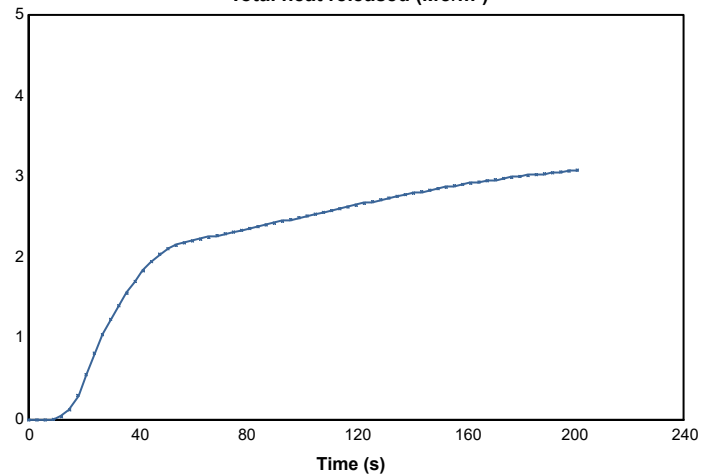
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002644
Issue Date : 28/05/2021
Print Date : 31/05/2021

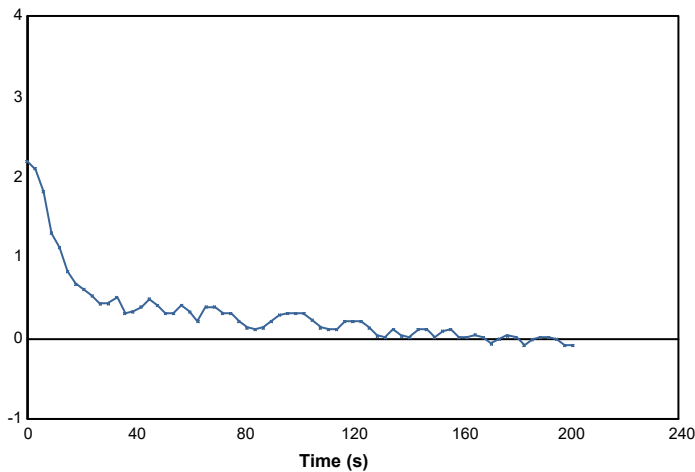
Mass loss rate (g/s)



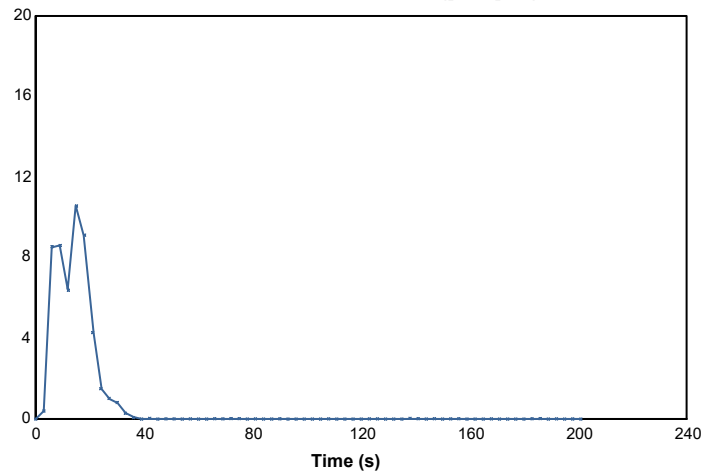
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "MR01 - Miroir Argent"
Flexible Vinyl Film
Colour : Silver
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 128g/m²
Nominal Thickness : 0.09mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 29-03-2021
Face Tested Mirror

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	fti	8.7	10.9	8.7	fti	fti	9.4	kW/m ²
Average Specific extinction area	684.1	605.4	494.6	570.0	650.0	722.9	621.1	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	fti	11	10	13	fti	fti	11	sec
Test duration	600	192	191	194	600	600	396	sec
Peak heat release after ignition	n/a	76.3	87.3	69.1	n/a	n/a	77.6	kW/m ²
Average heat at 60 s	n/a	20.5	27.0	18.0	n/a	n/a	21.8	kW/m ²
Average heat at 180 s	n/a	8.7	10.9	8.7	n/a	n/a	9.4	kW/m ²

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Fiona McDonald

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Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
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1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	n/a	1.6	2.0	1.6	n/a	n/a	1.7	MJ/m ²	
Ave. effective heat of combustion	n/a	9.6	12.4	9.7	n/a	n/a	10.6	MJ/kg	
Initial thickness	0.1	0.1	0.1	0.1	0.1	0.1	0.1	mm	
Initial mass	1.5	1.5	1.6	1.6	1.7	1.4	1.6	g	
Mass remaining	0.1	0.1	0.2	0.1	0.2	0.0	0.1	g	
Mass percentage pyrolysed	93.5	93.7	87.9	94.1	88.6	100.0	93.0	%	
Mass loss	n/a	0.2	0.2	0.2	n/a	n/a	0.2	kg/m ²	
Average rate of mass loss	n/a	0.9	0.9	0.9	n/a	n/a	0.9	g/m ² .s	

Additional Observations None

Difficulties Encountered during Testing None

fti = failed to ignite

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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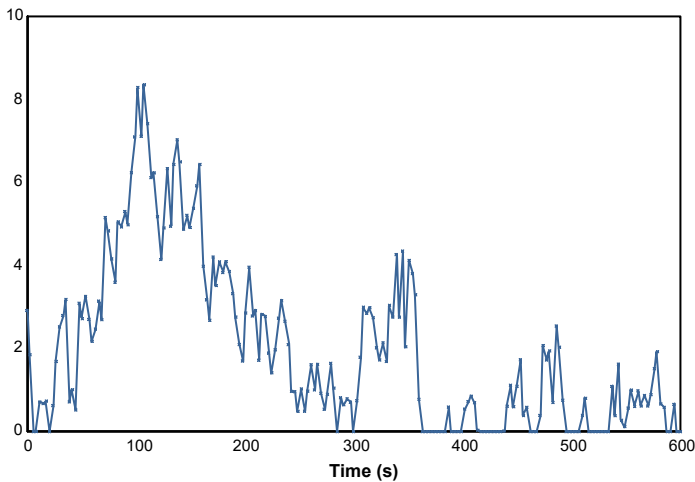
TEST REPORT

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130 / 140 Rue Rene Cauche
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FRANCE

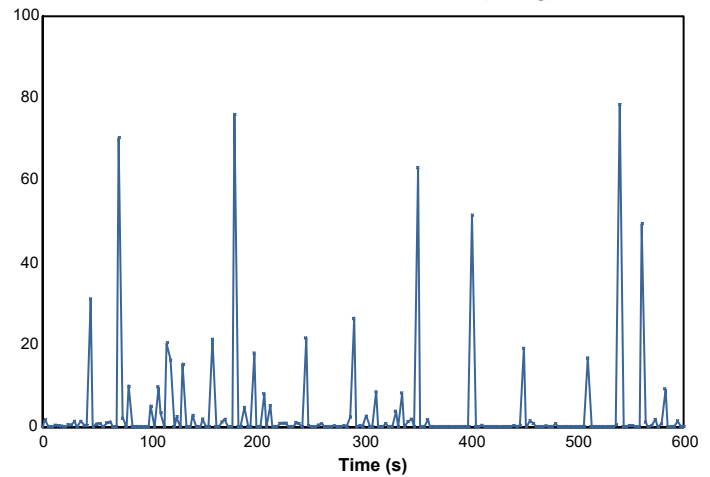
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

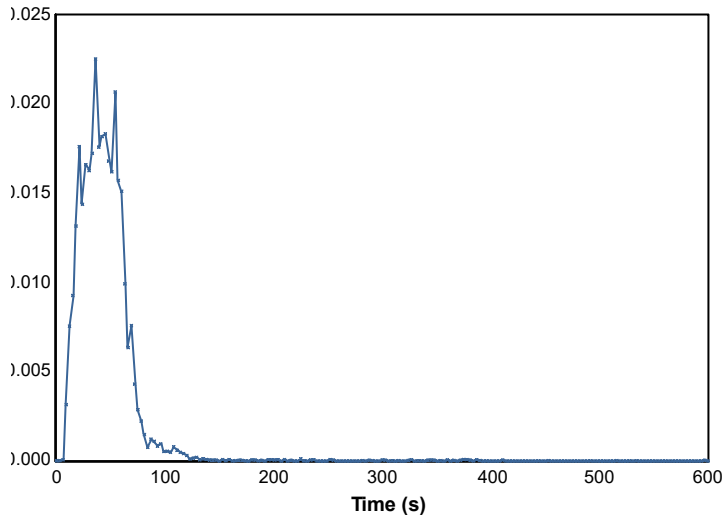
Heat release rate (kW/m²)



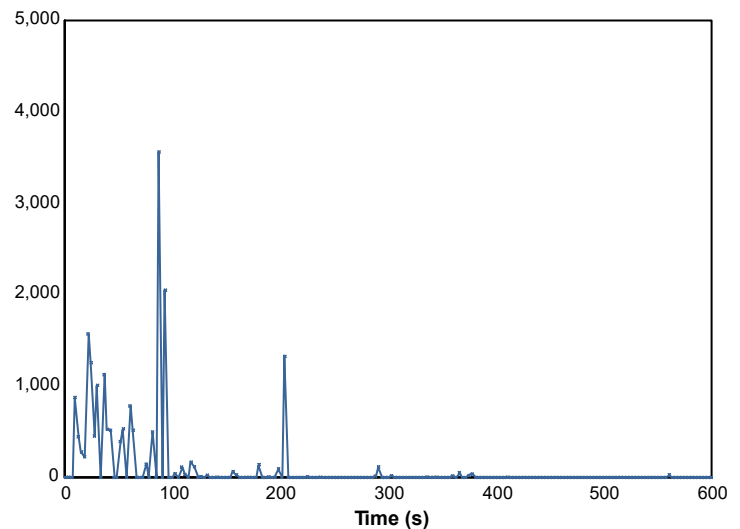
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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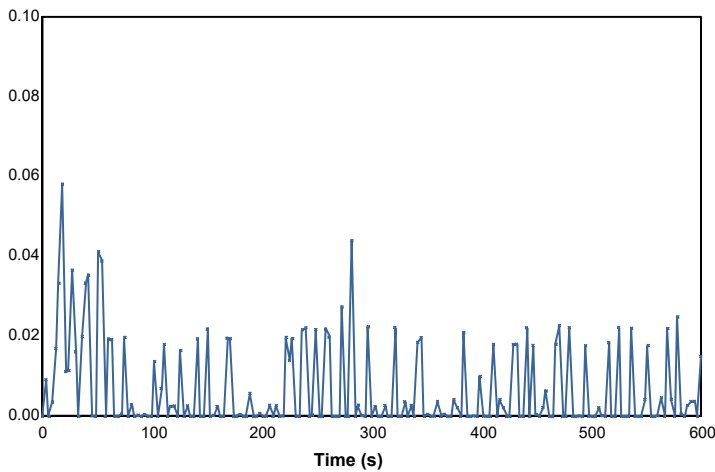
Phone (03) 9371 2400

TEST REPORT

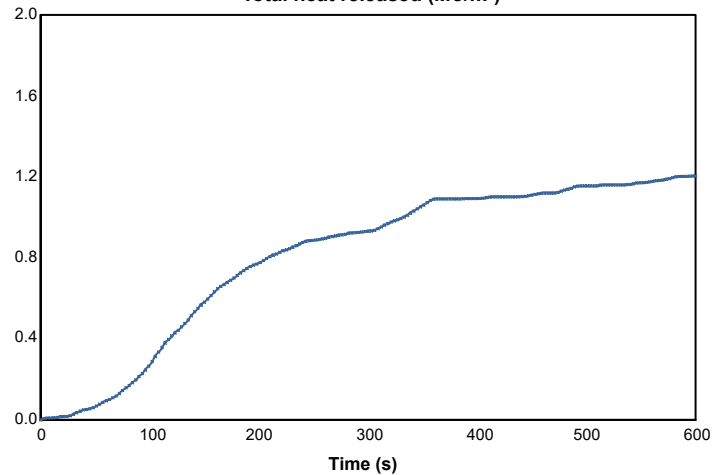
Client : NEWMAT S.A.S.
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FRANCE

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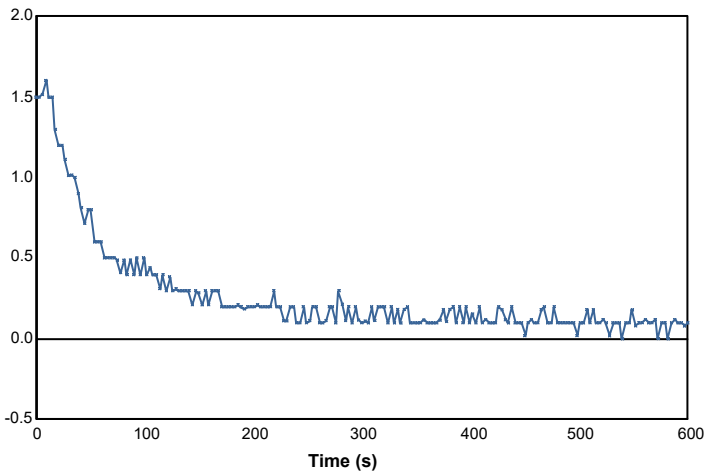
Mass loss rate (g/s)



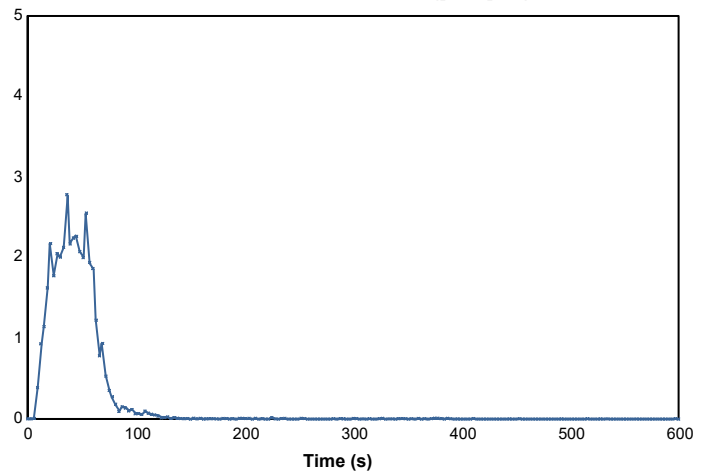
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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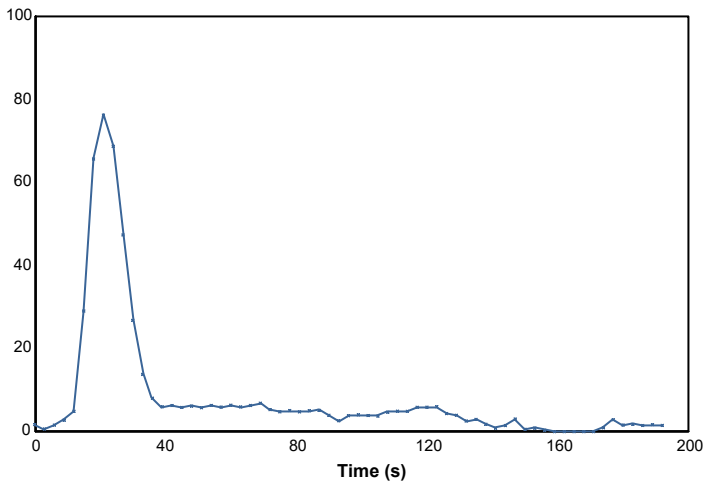
TEST REPORT

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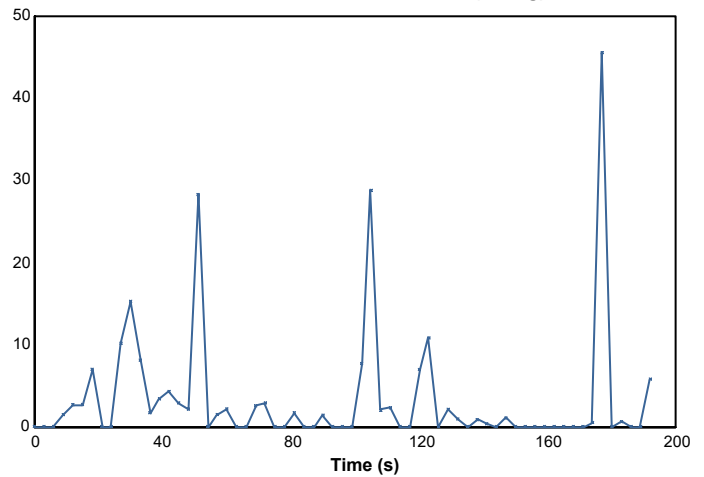
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 2

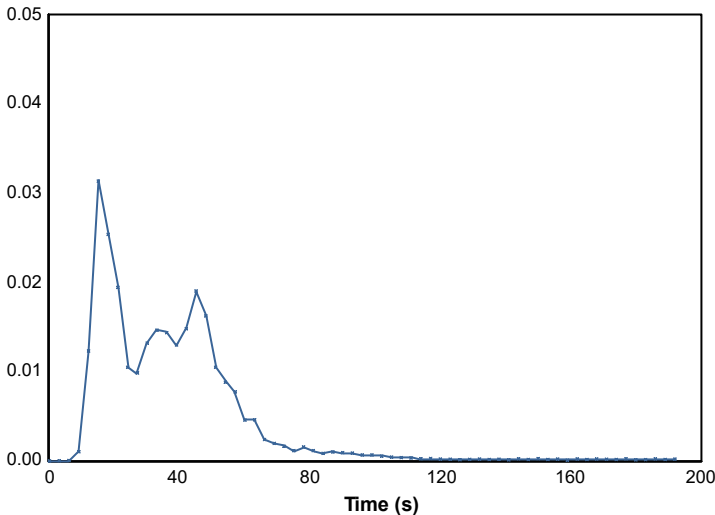
Heat release rate (kW/m²)



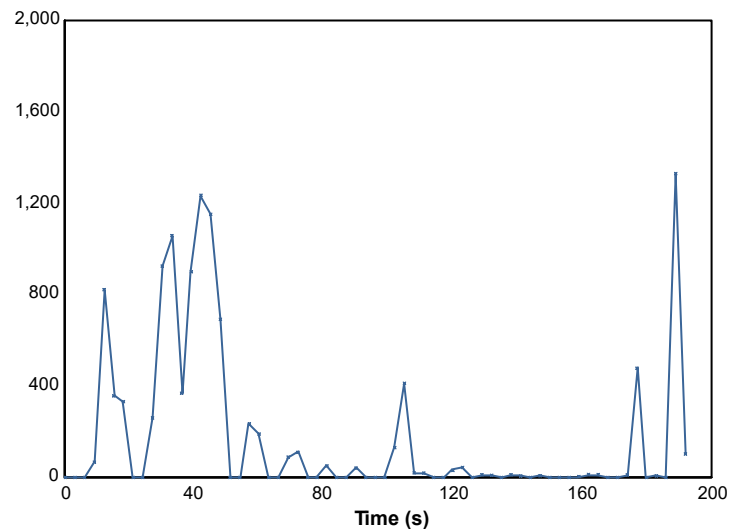
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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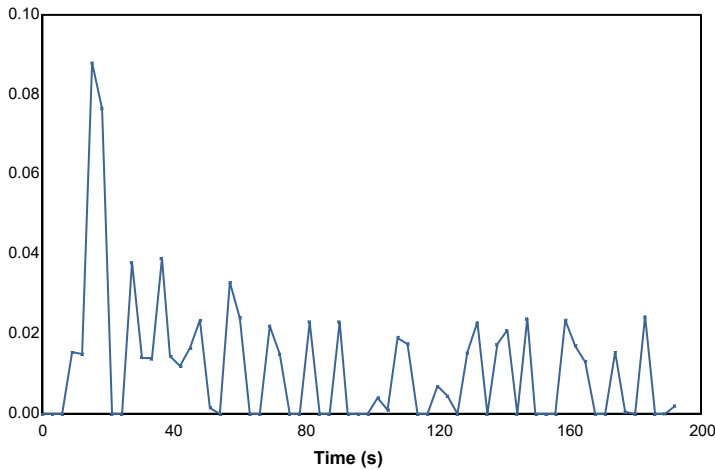
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TEST REPORT

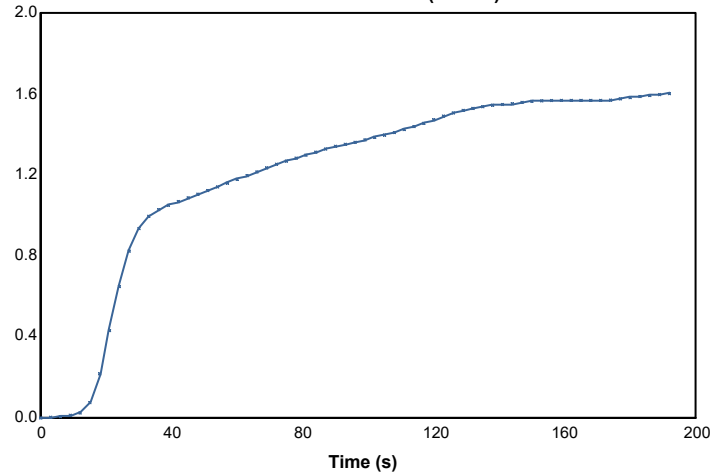
Client : NEWMAT S.A.S.
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Test Number : 21-002662
Issue Date : 28/05/2021
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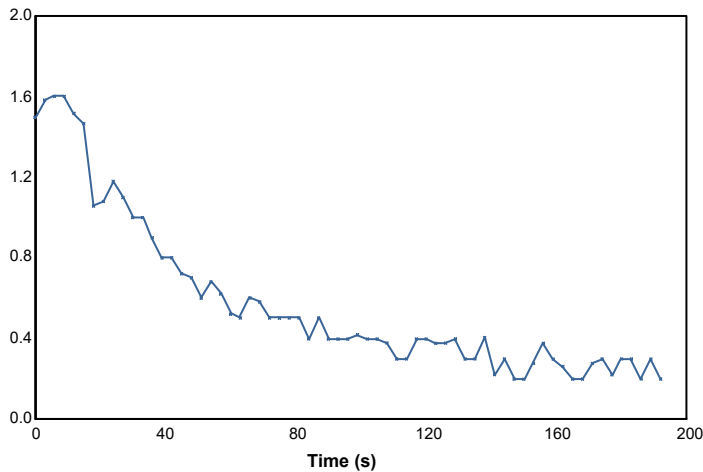
Mass loss rate (g/s)



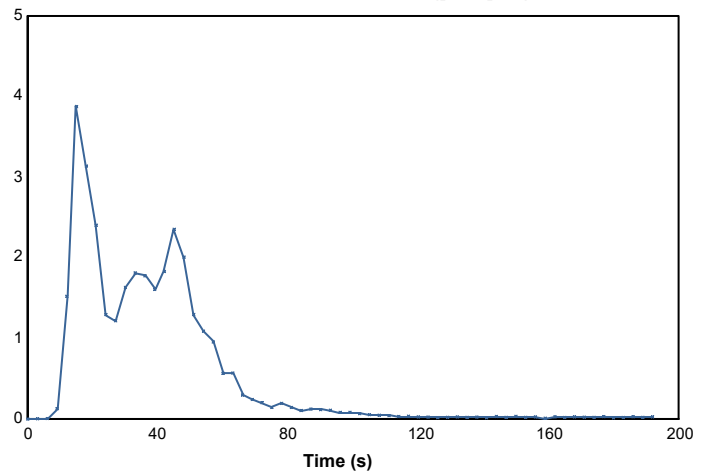
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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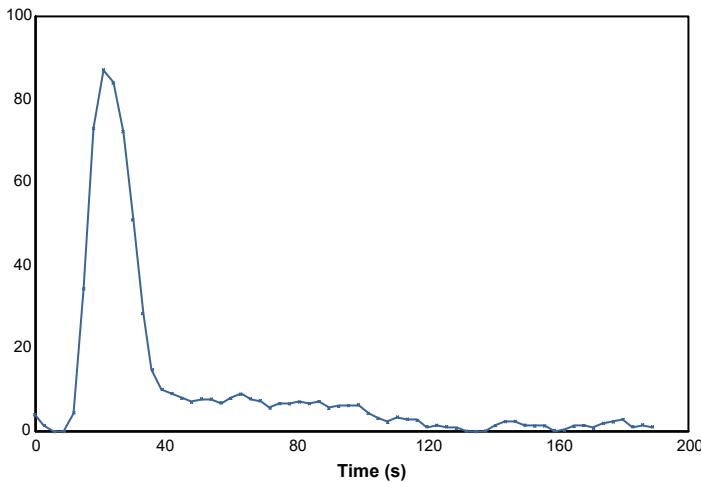
TEST REPORT

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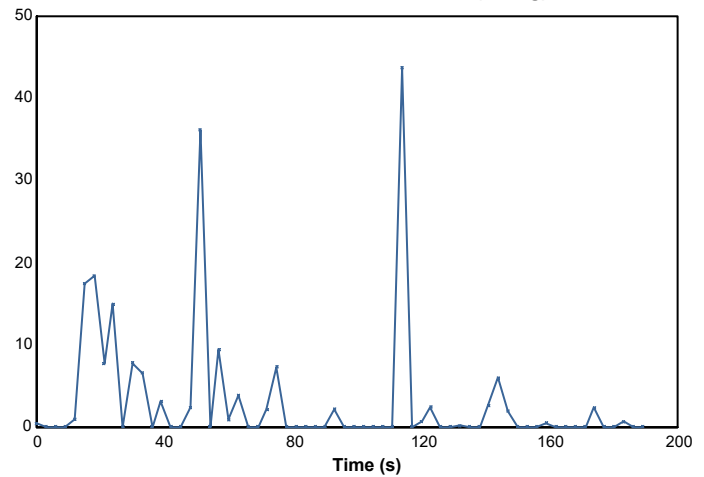
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

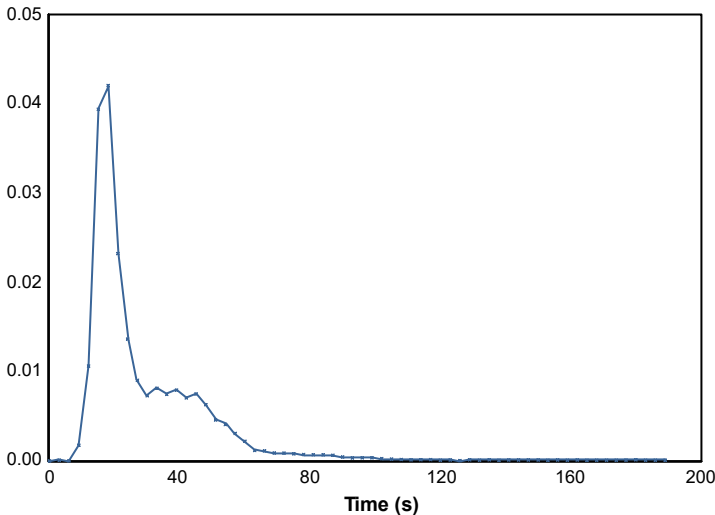
Heat release rate (kW/m²)



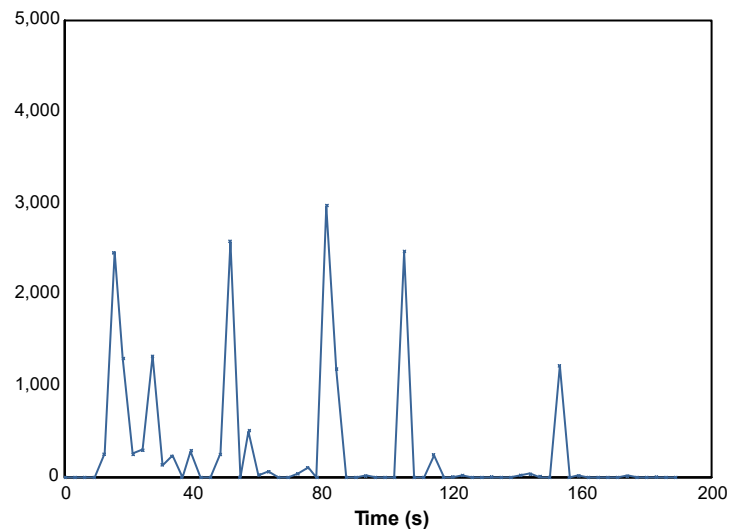
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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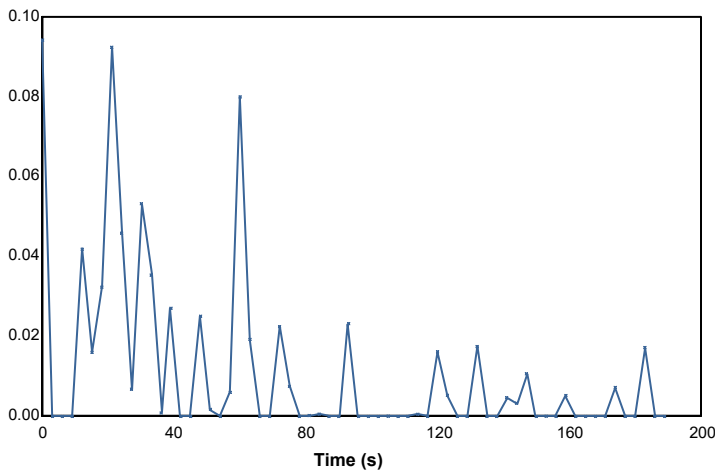
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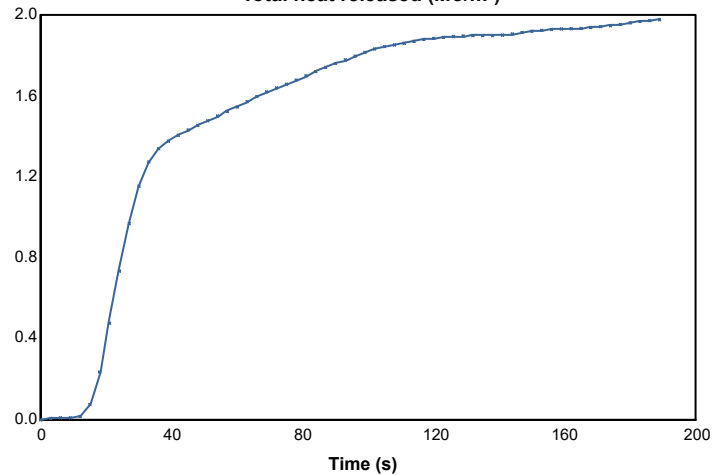
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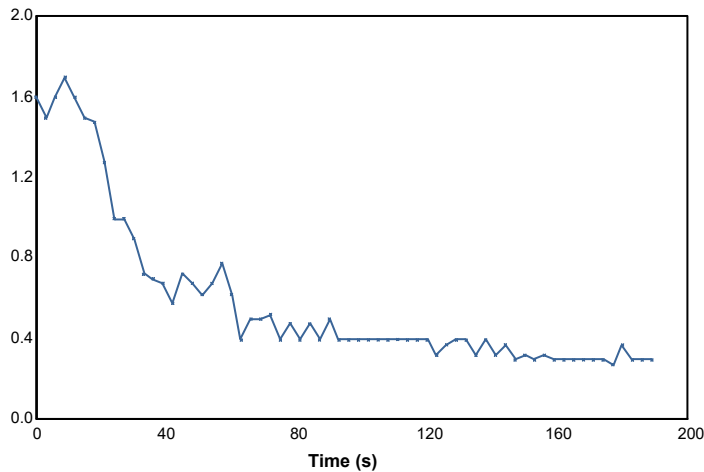
Mass loss rate (g/s)



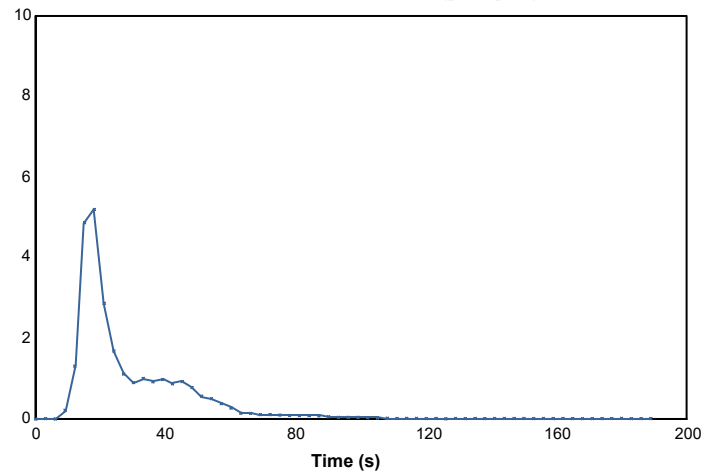
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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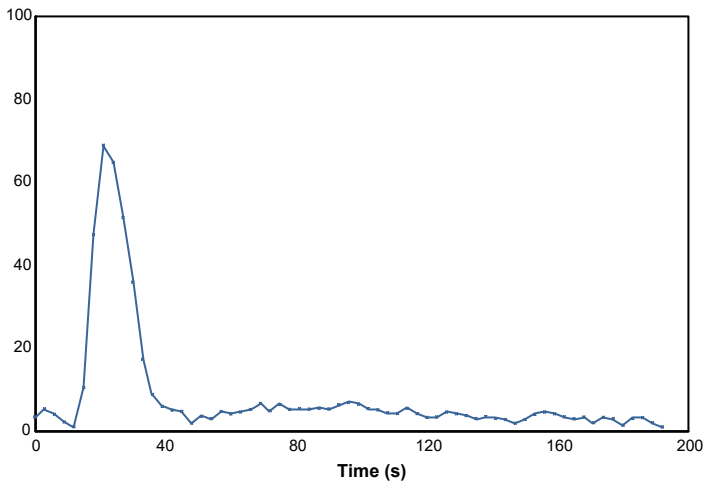
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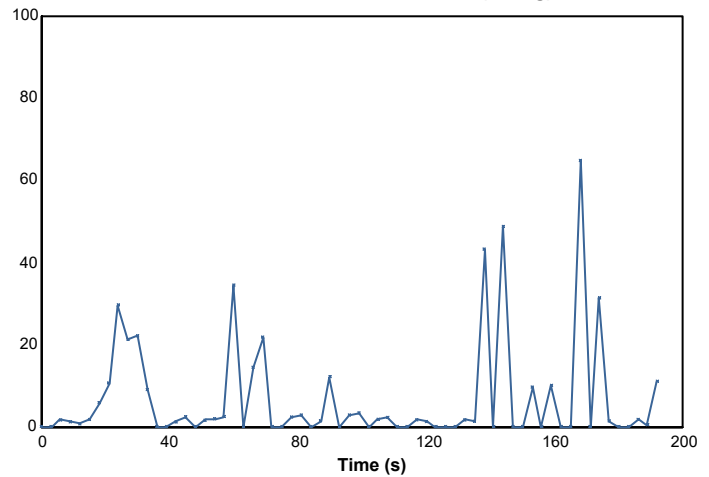
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 4

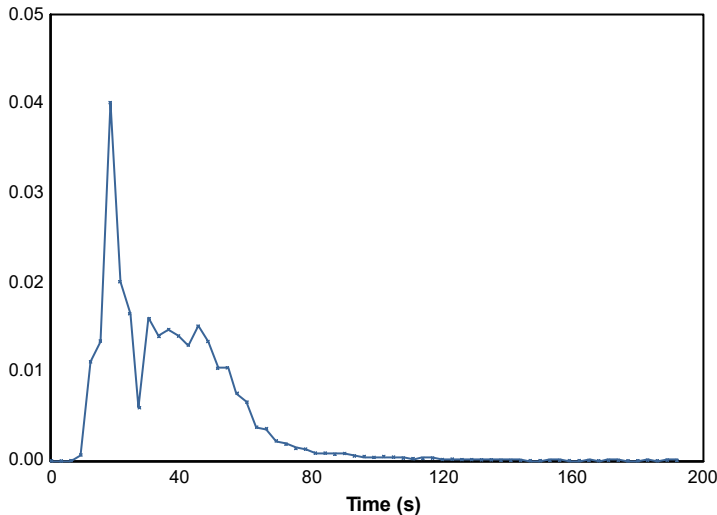
Heat release rate (kW/m²)



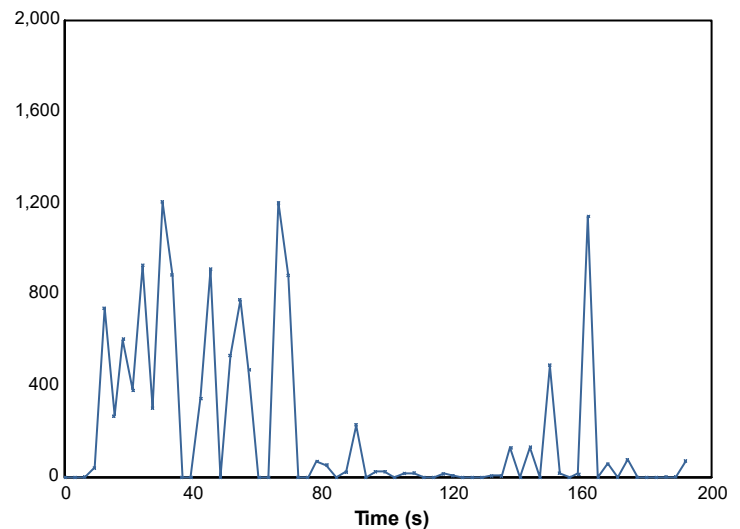
Effective heat of combustion (MJ/kg)



Smoke production rate (m³/s)



Specific extinction area (m²/kg)



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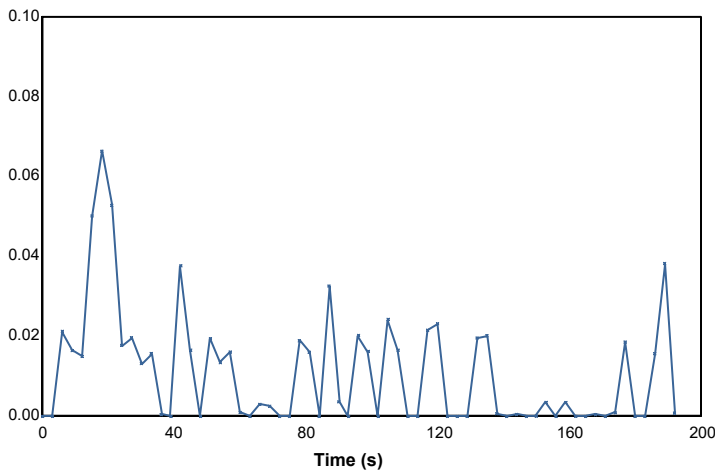
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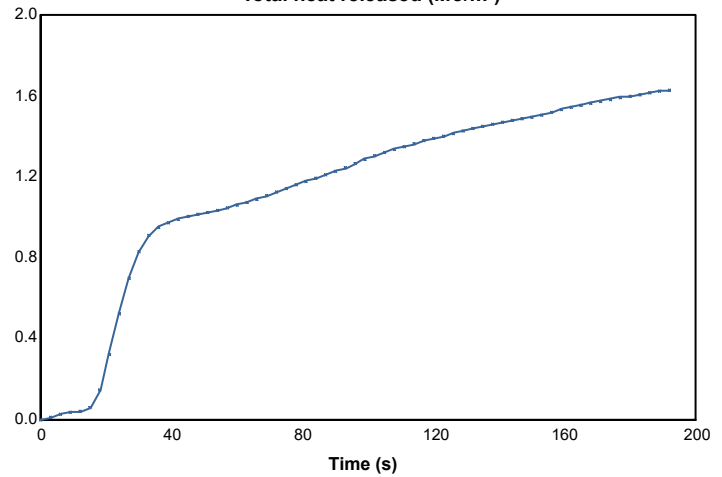
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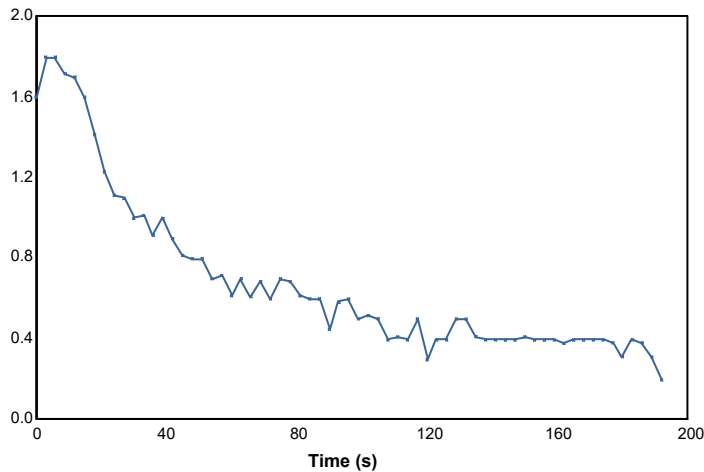
Mass loss rate (g/s)



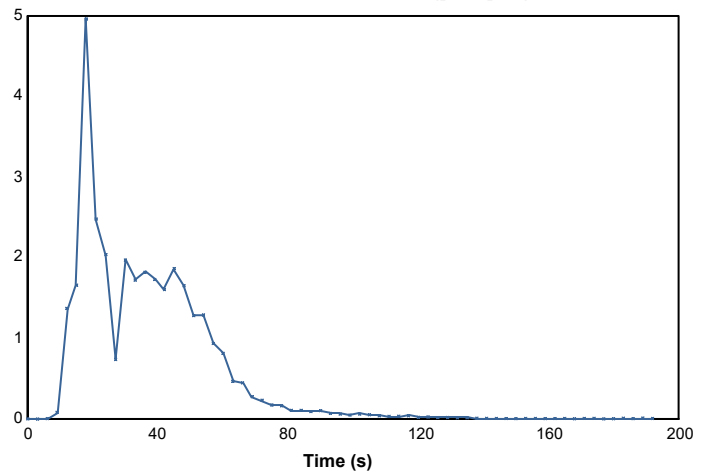
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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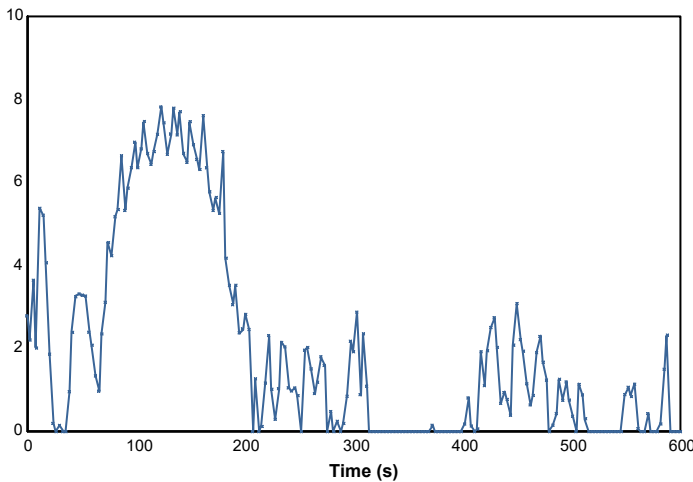
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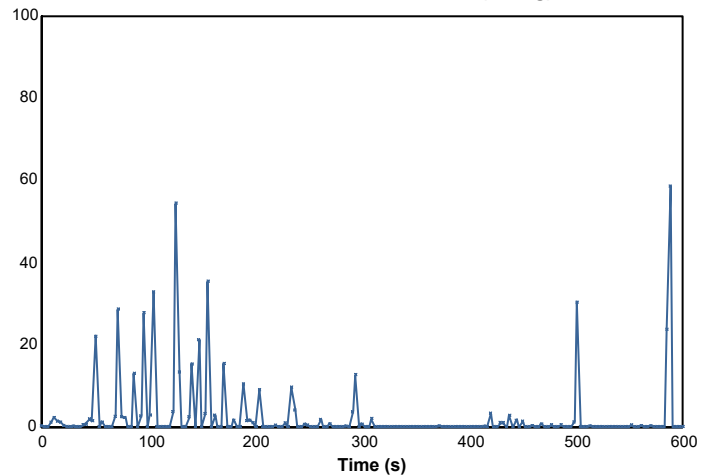
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 5

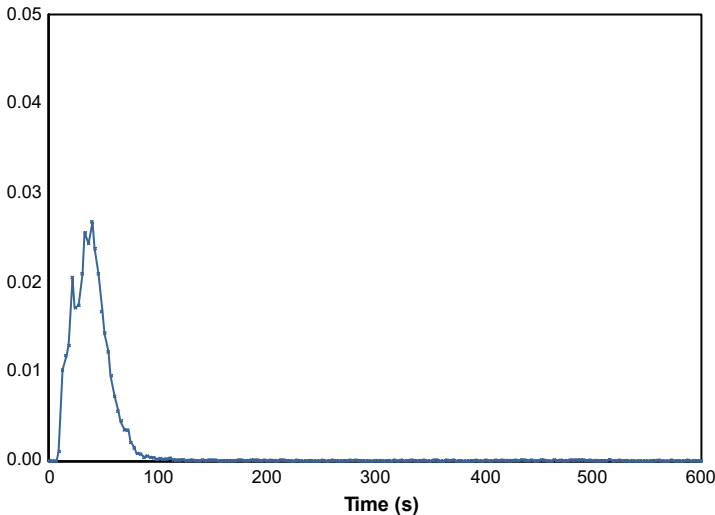
Heat release rate (kW/m²)



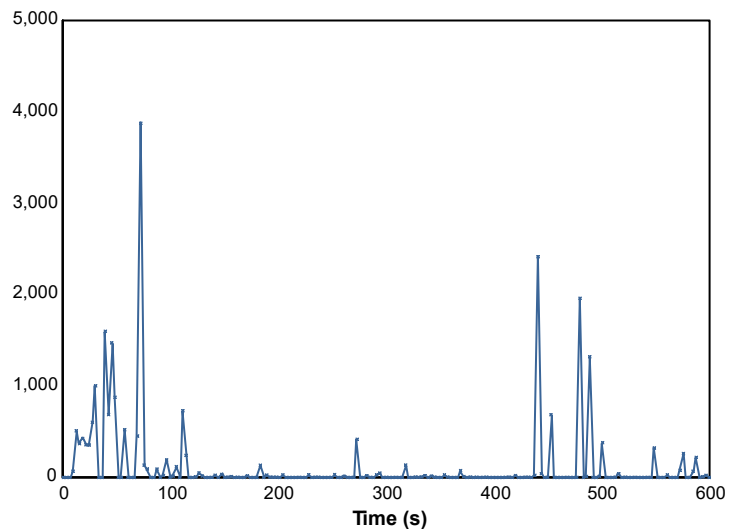
Effective heat of combustion (MJ/kg)



Smoke production rate (m³/s)



Specific extinction area (m²/kg)



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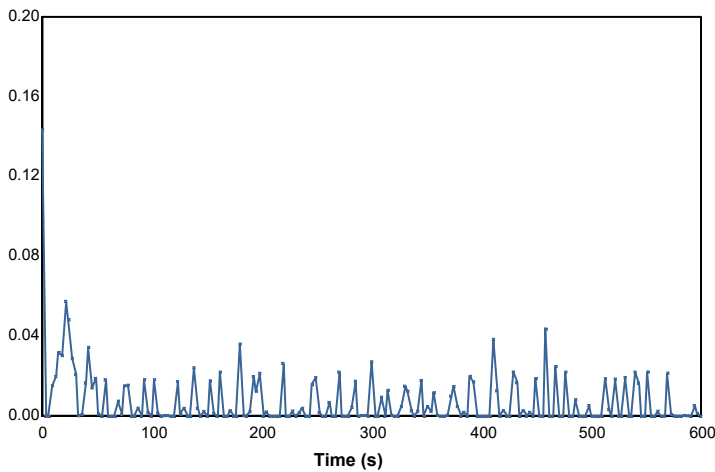
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TEST REPORT

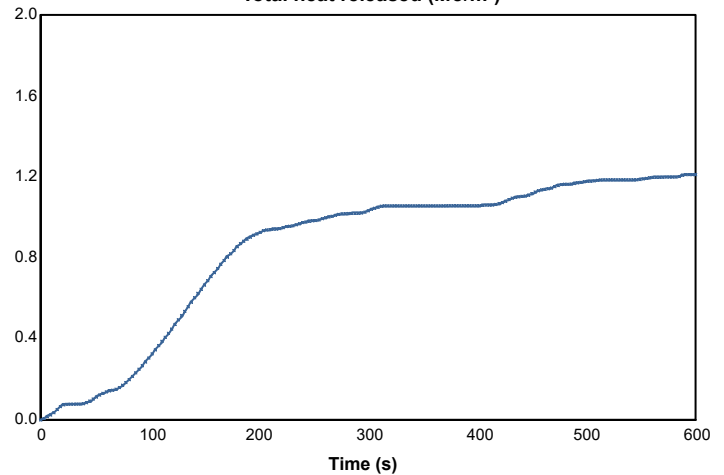
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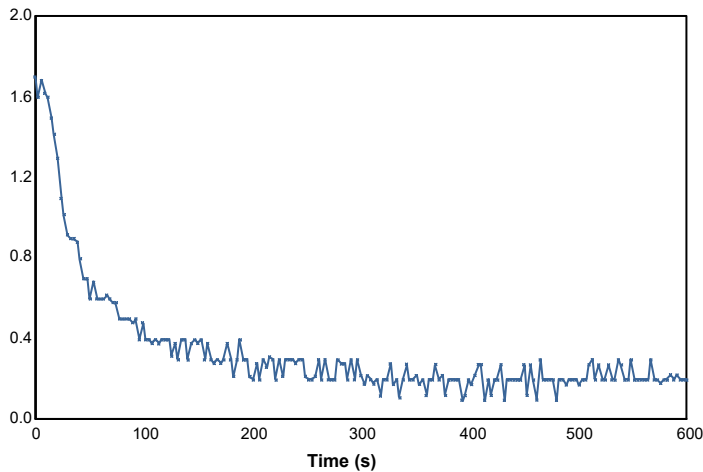
Mass loss rate (g/s)



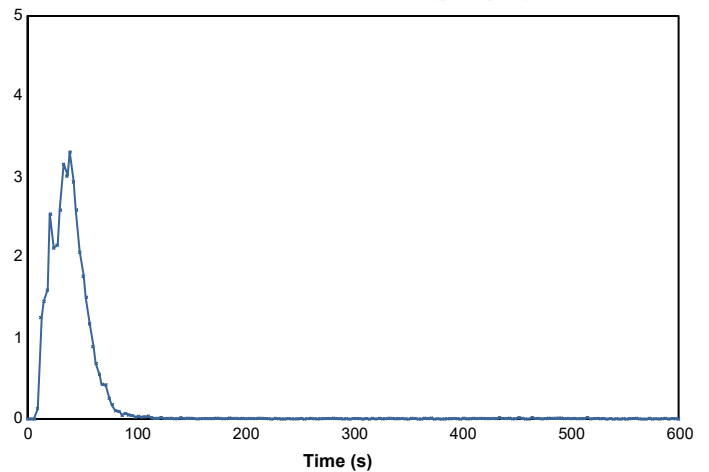
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Fiona McDonald

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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

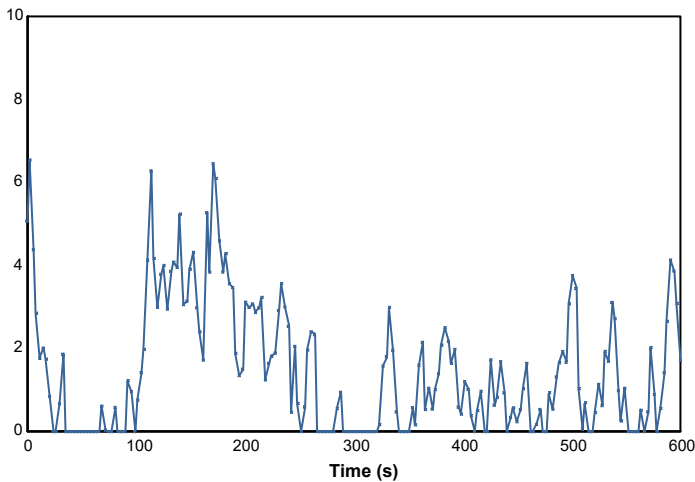
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

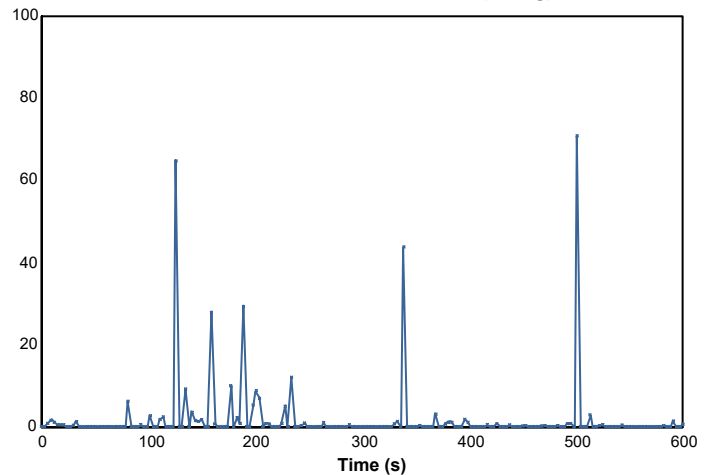
Test Number : 21-002662
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 6

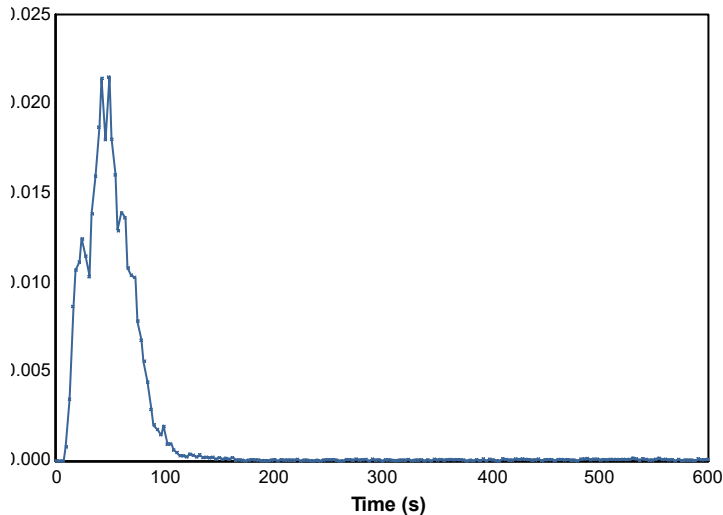
Heat release rate (kW/m²)



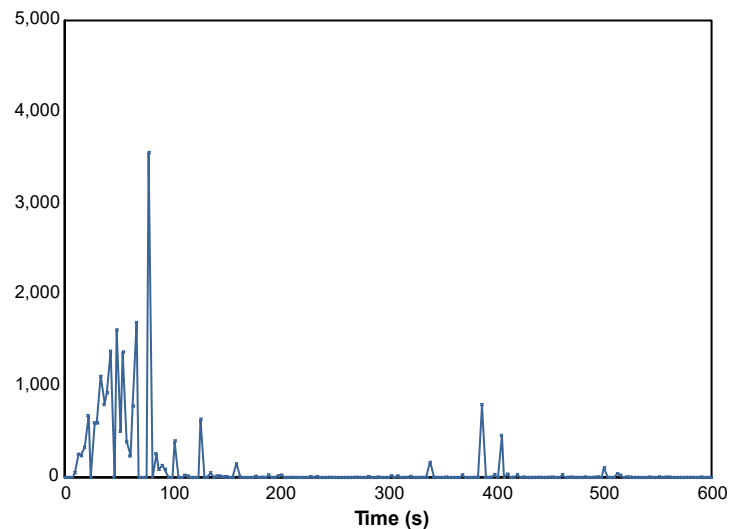
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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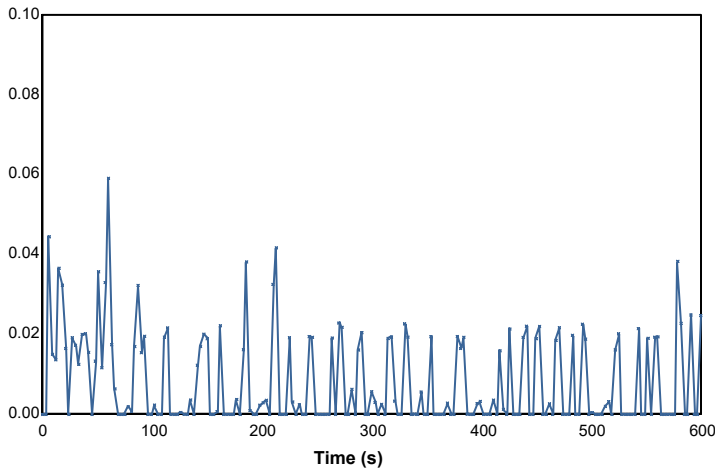
Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
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1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
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TEST REPORT

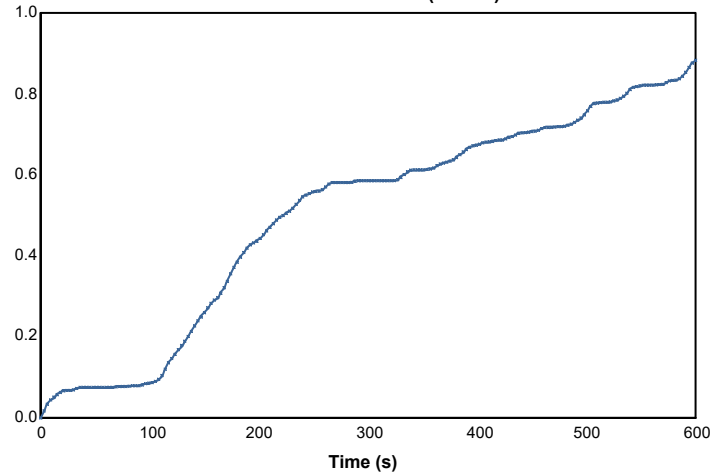
Client : NEWMAT S.A.S.
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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002662
Issue Date : 28/05/2021
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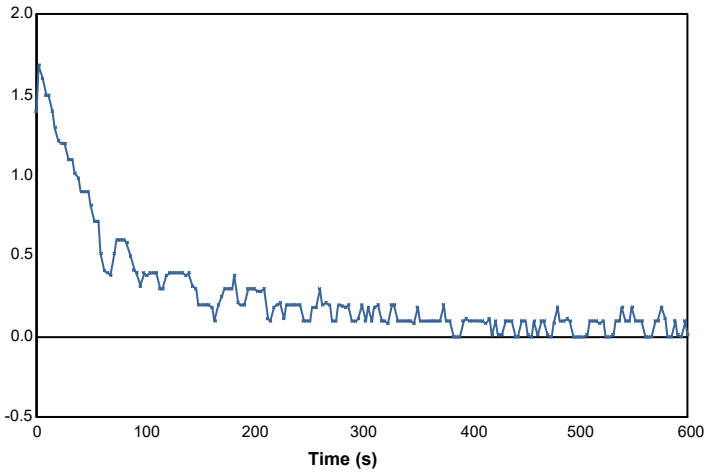
Mass loss rate (g/s)



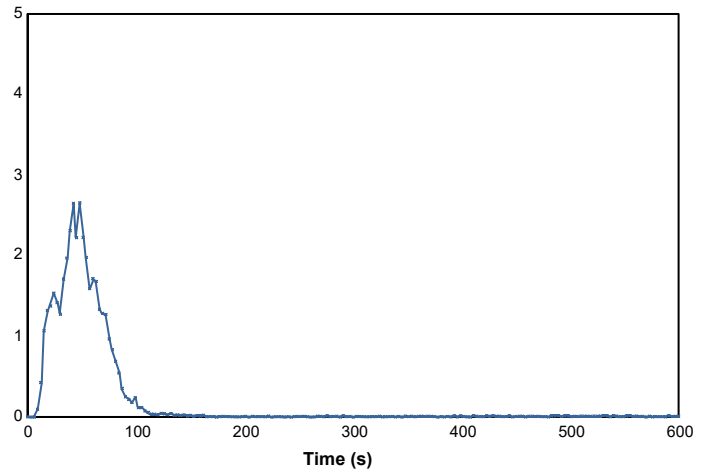
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "S600 Neige"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 220g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	17.4	16.0	17.4	16.9	kW/m ²
Average Specific extinction area	488.7	521.6	559.6	523.3	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	10	12	12	11	sec
Test duration	198	196	197	197	sec
Peak heat release after ignition	75.4	87.3	86.2	83.0	kW/m ²
Average heat at 60 s	38.2	34.6	38.7	37.2	kW/m ²

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TEST REPORT

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130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 180 s	17.8	16.3	17.8	17.3	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.2	2.9	3.2	3.1	MJ/m ²
Average effective heat of combustion	16.2	15.2	15.1	15.5	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.4	2.1	2.4	2.3	g
Mass remaining	0.5	0.7	0.7	0.6	g
Mass percentage pyrolysed	80.9	67.6	72.4	73.6	%
Mass loss	0.2	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	1.1	1.0	1.2	1.1	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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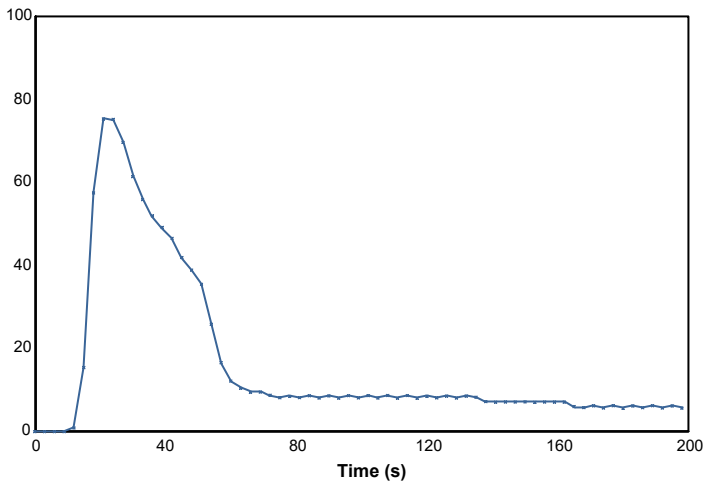
TEST REPORT

Client : NEWMAT S.A.S.
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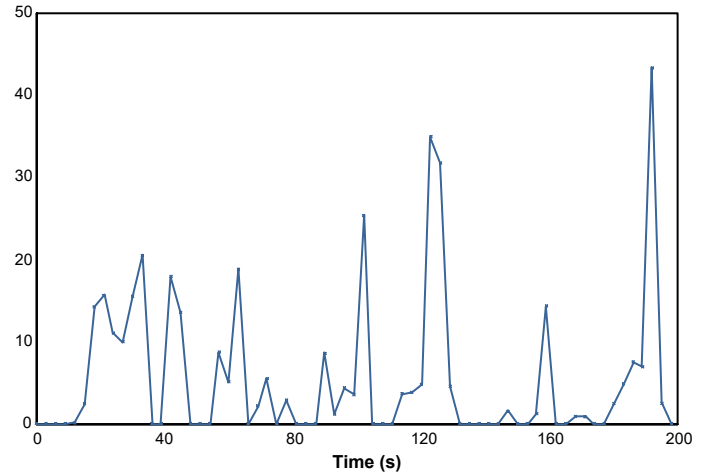
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Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

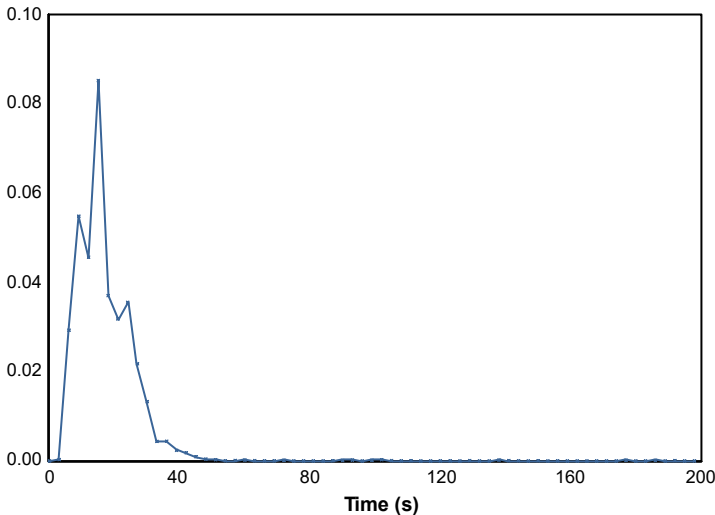
Heat release rate (kW/m²)



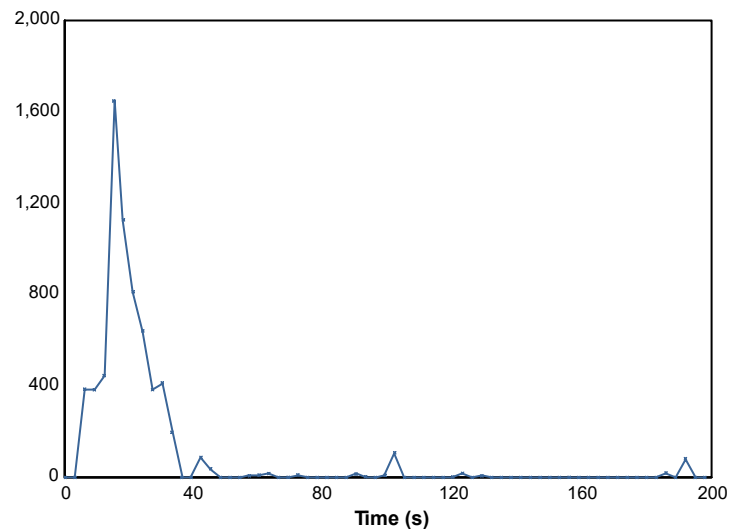
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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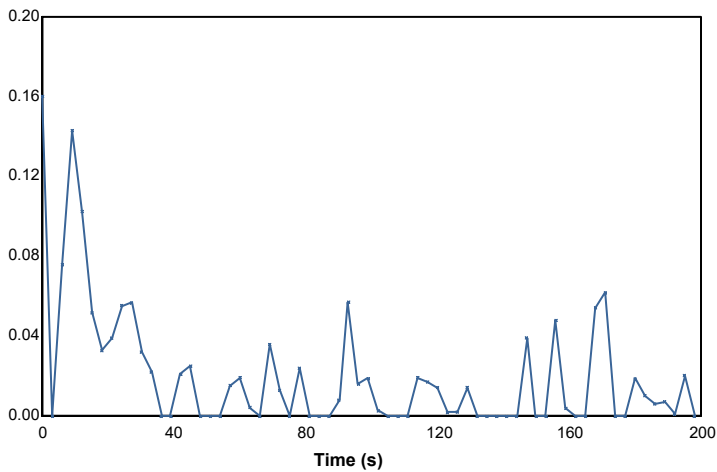
Phone (03) 9371 2400

TEST REPORT

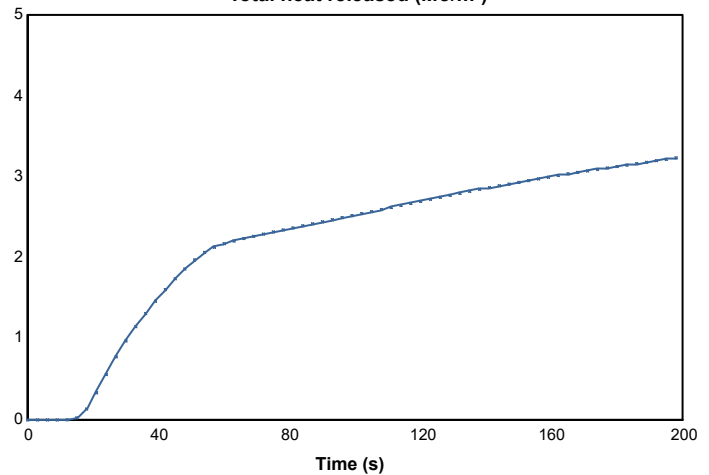
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

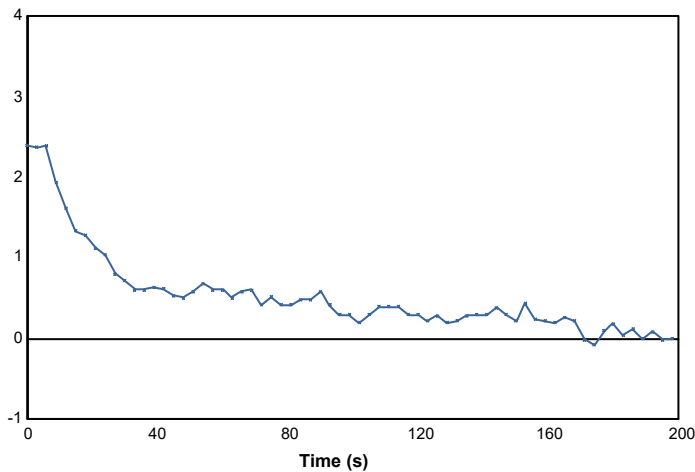
Mass loss rate (g/s)



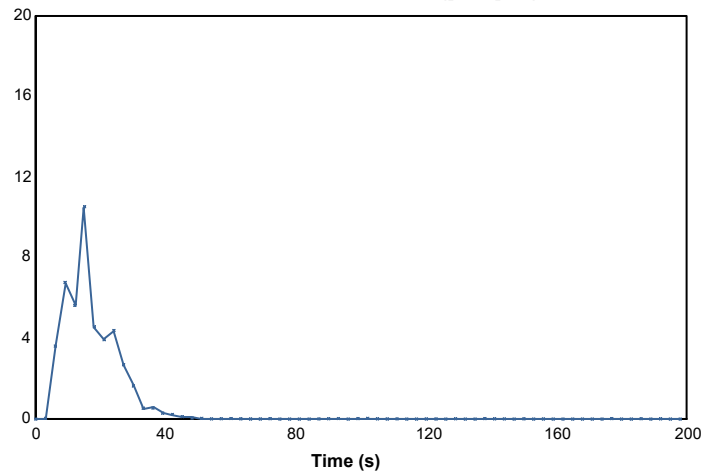
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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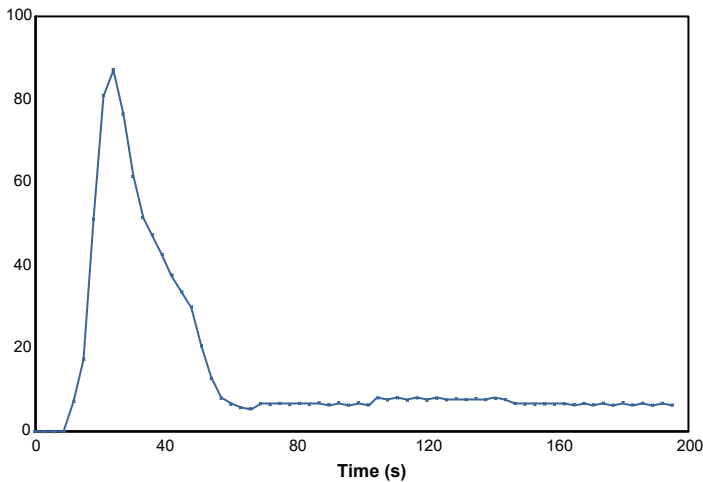
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

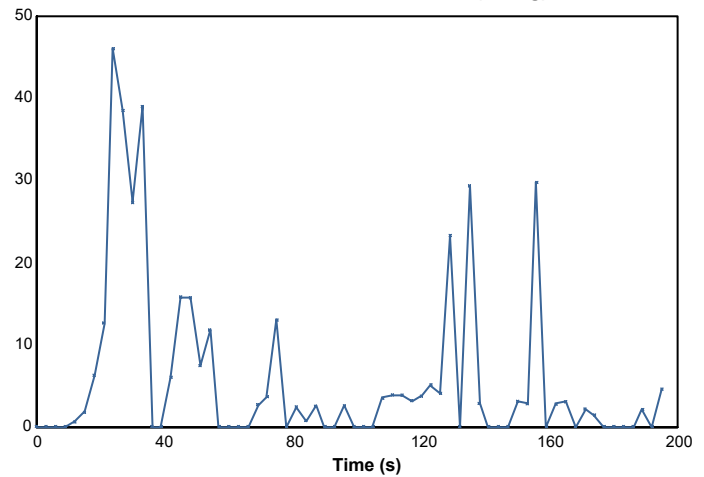
Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 2

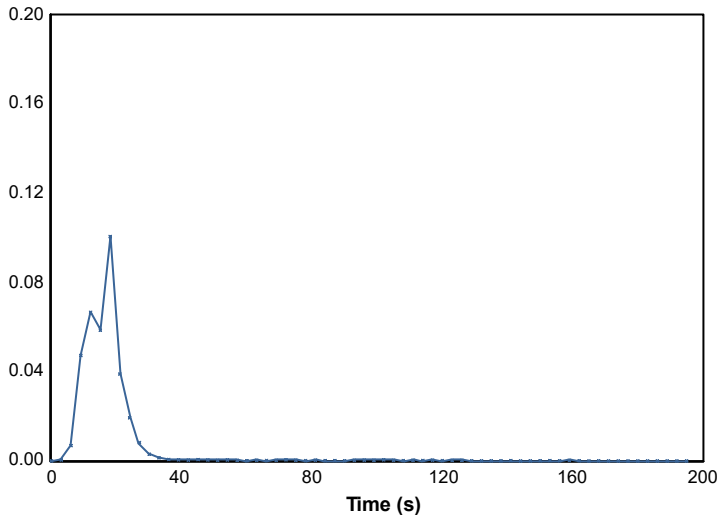
Heat release rate (kW/m²)



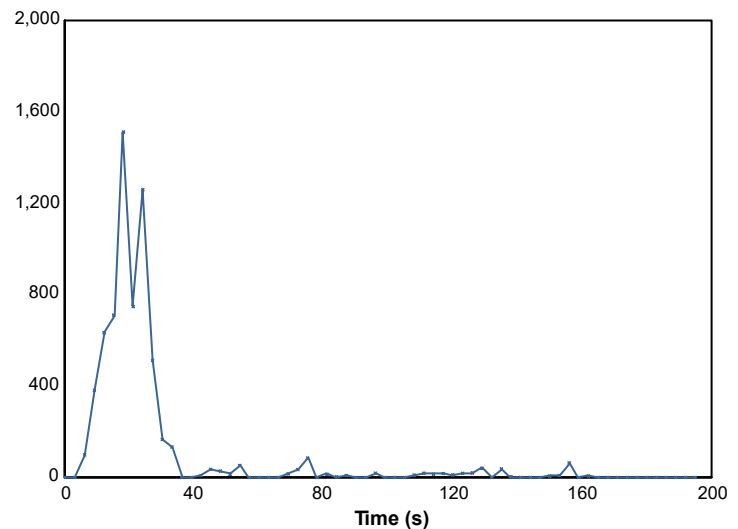
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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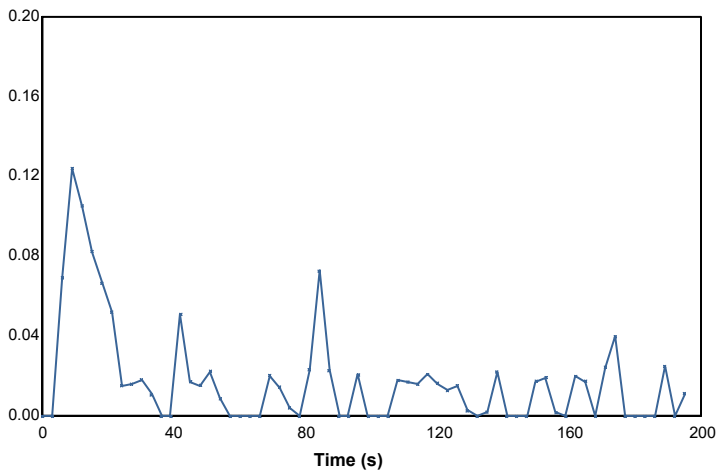
Phone (03) 9371 2400

TEST REPORT

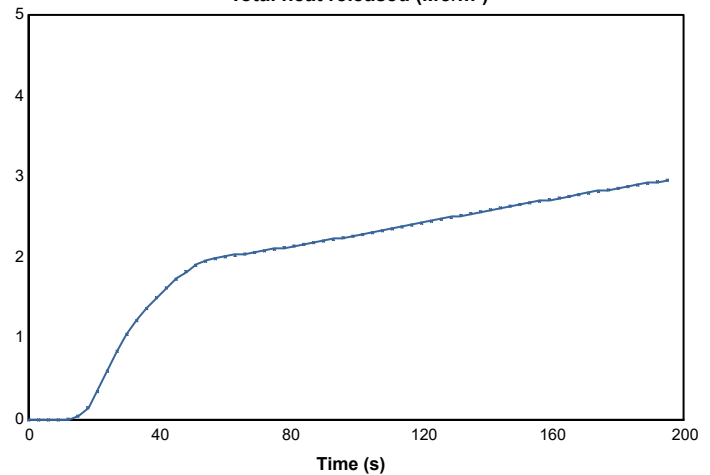
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

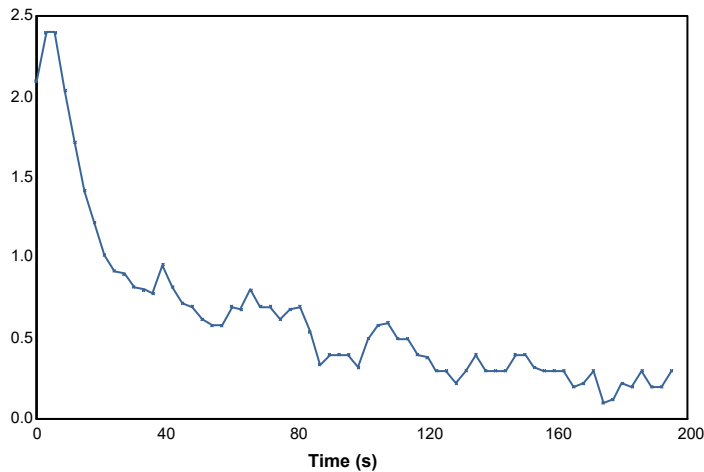
Mass loss rate (g/s)



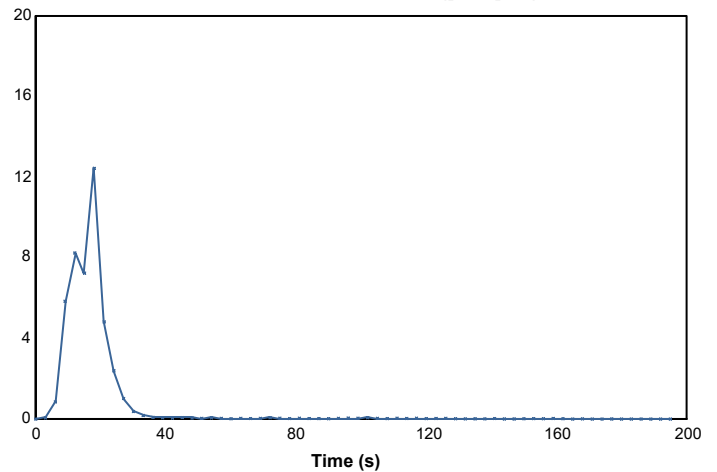
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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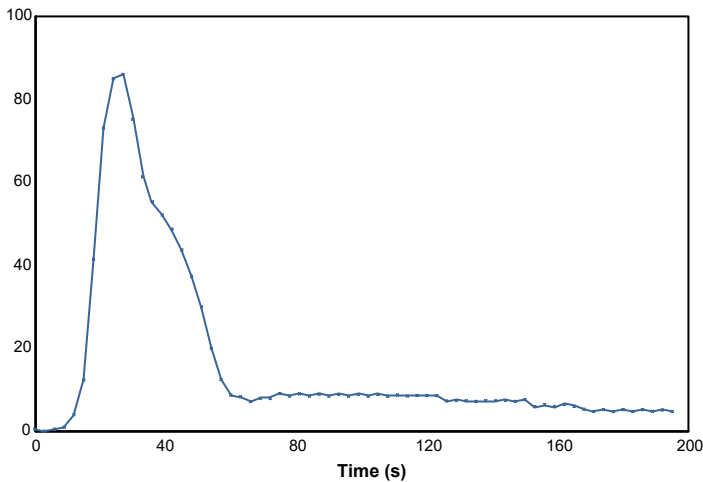
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

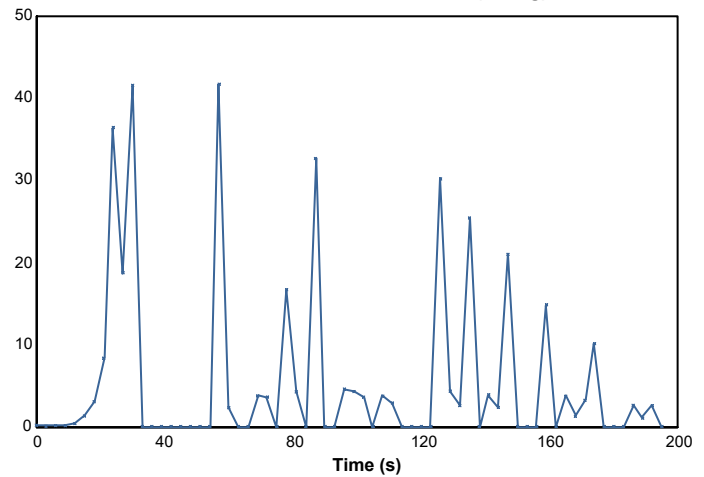
Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

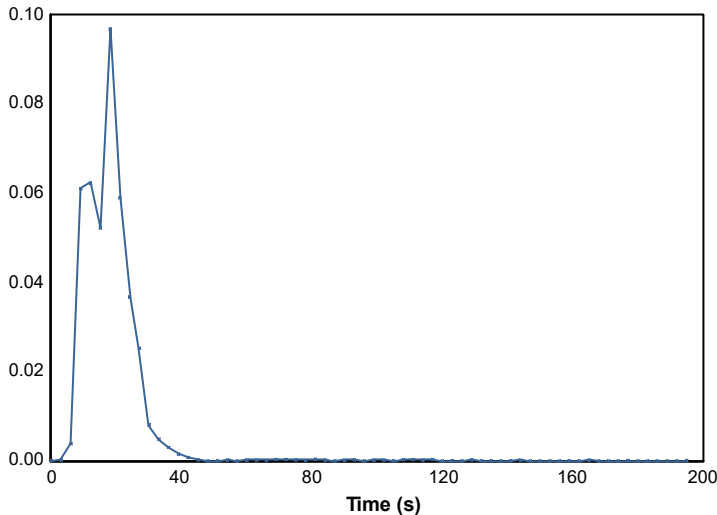
Heat release rate (kW/m²)



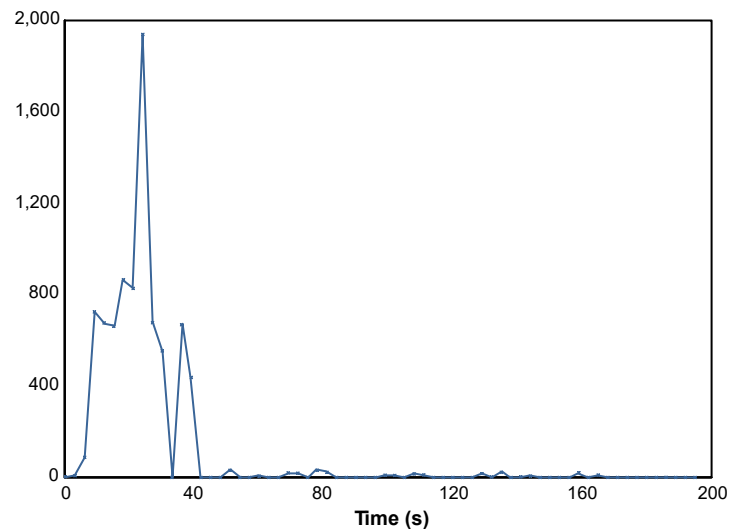
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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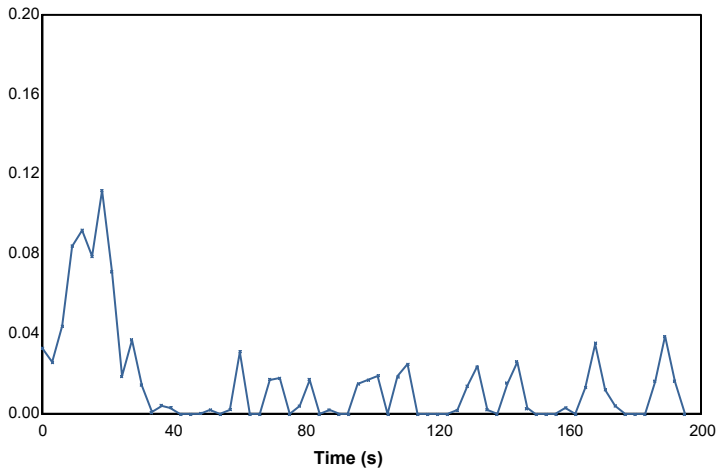
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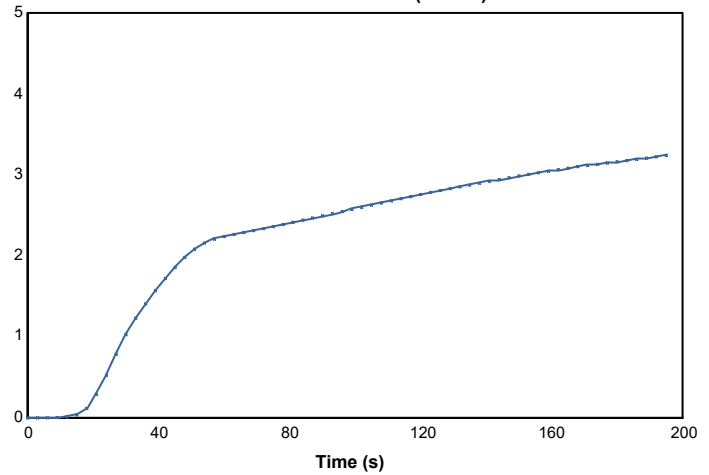
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Test Number : 21-002642
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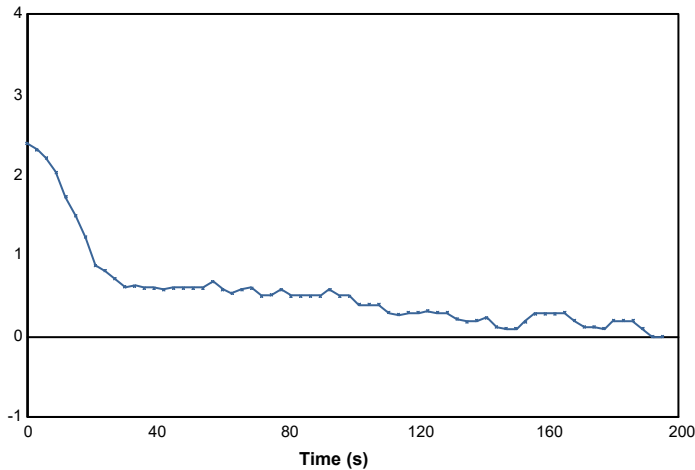
Mass loss rate (g/s)



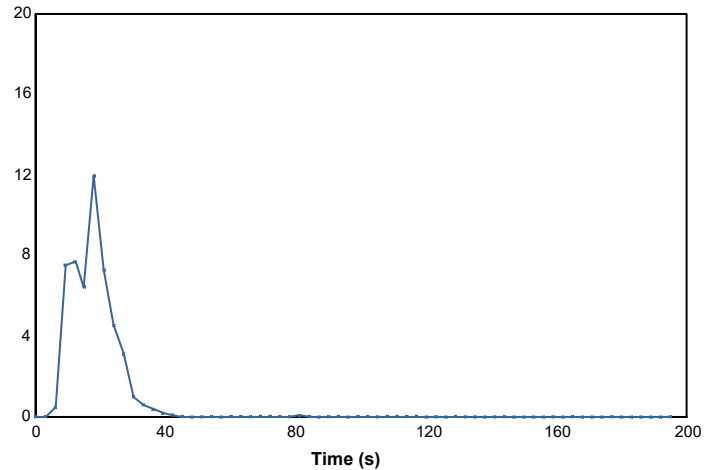
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002642
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sponsor Product Clients Ref : "S600 Neige"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 220g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 523.3 m²/kg



Chris Campbell
Client Relations Manager

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(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "S600S Pole Nord"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 230g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 807.0 m²/kg



Chris Campbell
Client Relations Manager

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AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "S600S Pole Nord"
Flexible vinyl film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 230g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 31-08-2020
Face Tested White Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	13.3	11.0	13.1	12.5	kW/m ²
Average Specific extinction area	725.5	928.9	766.7	807.0	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	7	6	6	6	sec
Test duration	208	222	225	218	sec
Peak heat release after ignition	86.1	86.9	80.0	84.3	kW/m ²
Average heat at 60 s	40.4	38.6	40.7	39.9	kW/m ²

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Chris Campbell
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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	14.6	13.0	15.3	14.3	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.7	2.4	2.9	2.6	MJ/m ²
Average effective heat of combustion	12.4	11.2	12.6	12.1	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.5	2.4	2.3	2.4	g
Mass remaining	0.6	0.7	0.5	0.6	g
Mass percentage pyrolysed	77.6	71.7	80.2	76.5	%
Mass loss	0.2	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	1.1	1.0	1.0	1.0	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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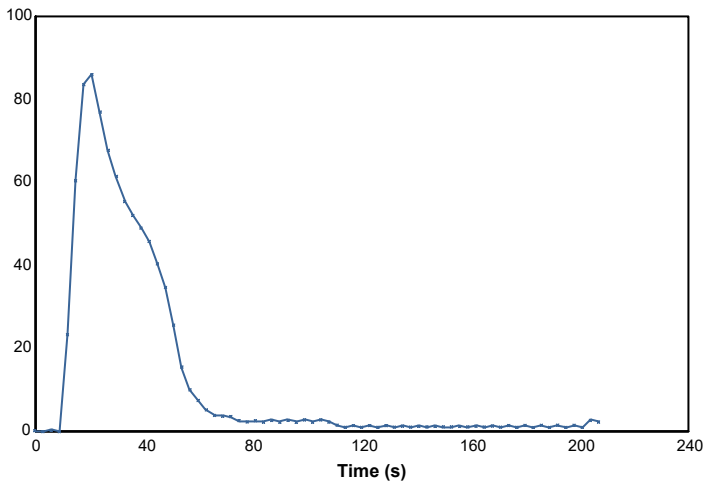
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

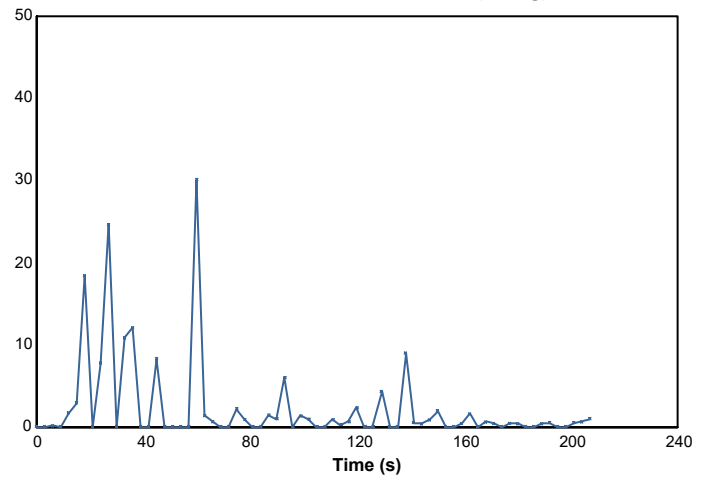
Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

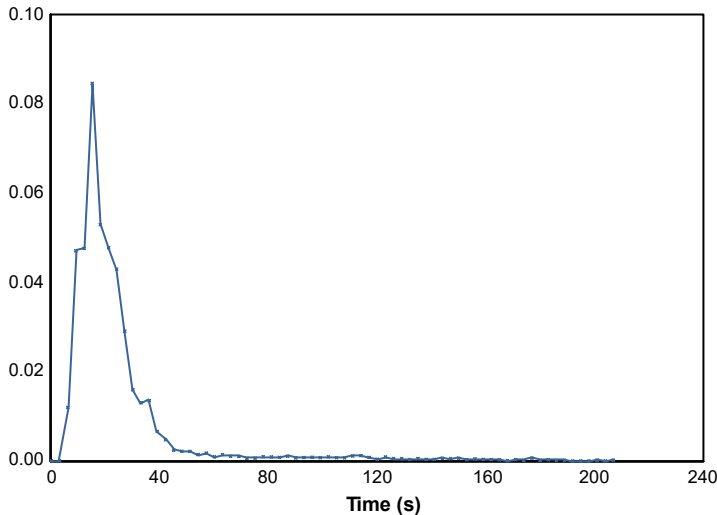
Heat release rate (kW/m²)



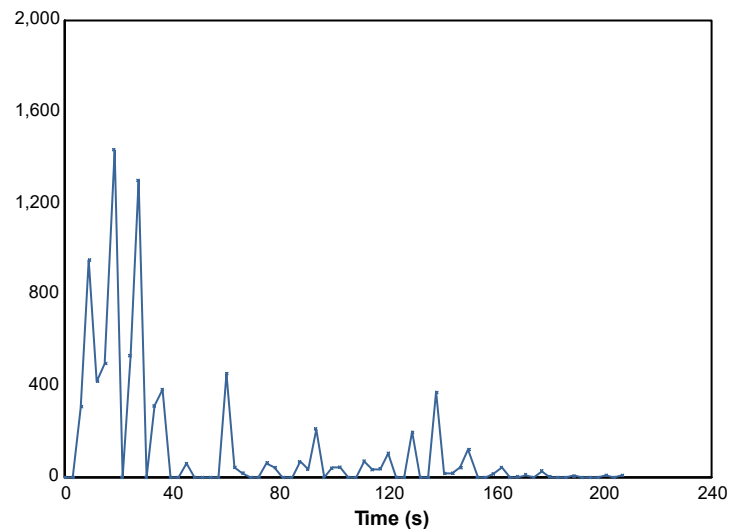
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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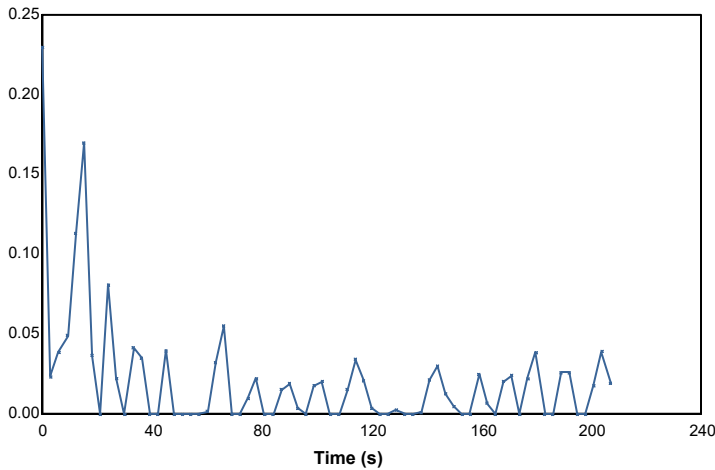
Phone (03) 9371 2400

TEST REPORT

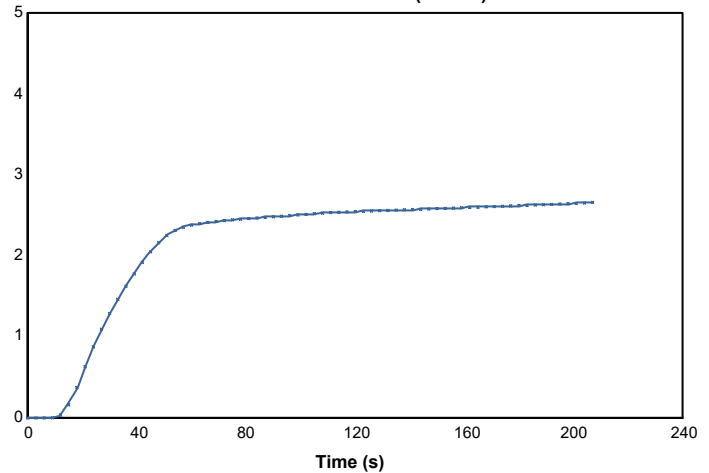
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

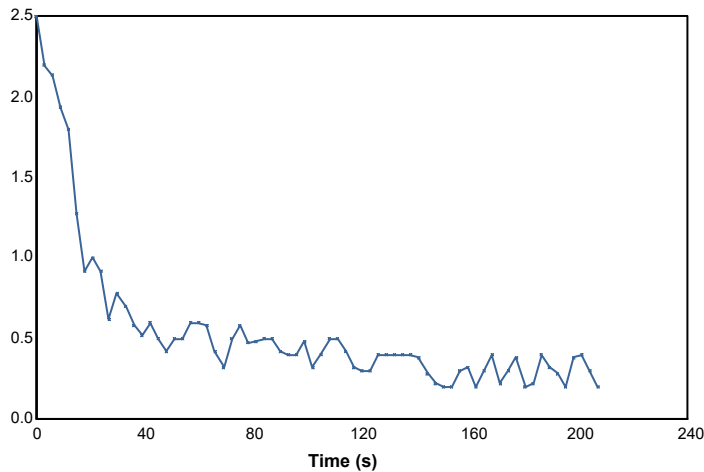
Mass loss rate (g/s)



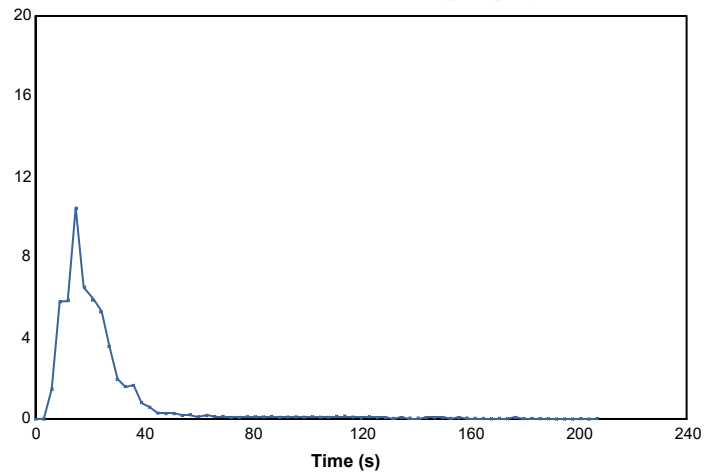
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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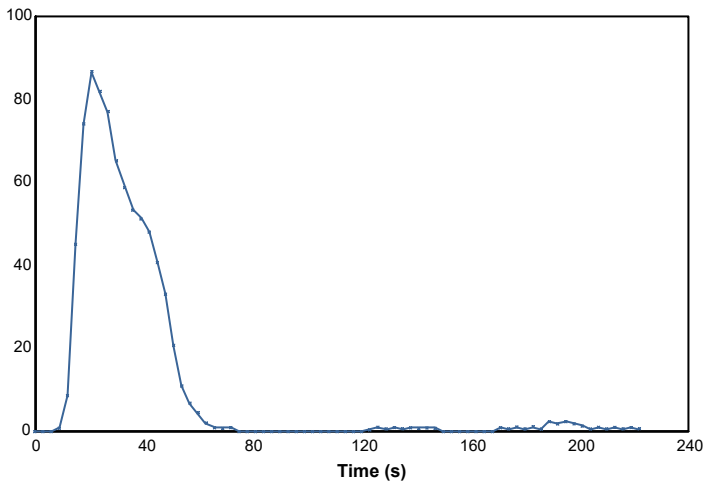
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

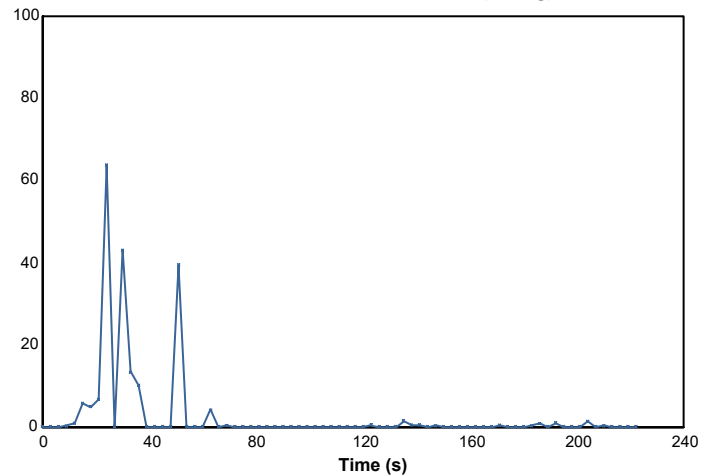
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

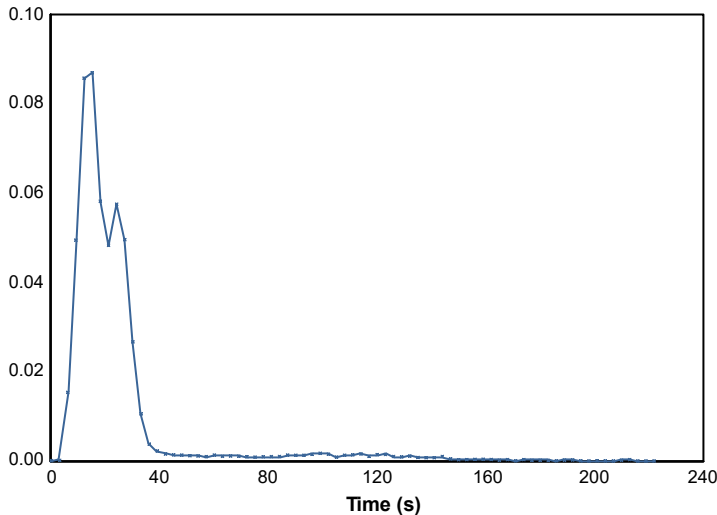
Heat release rate (kW/m²)



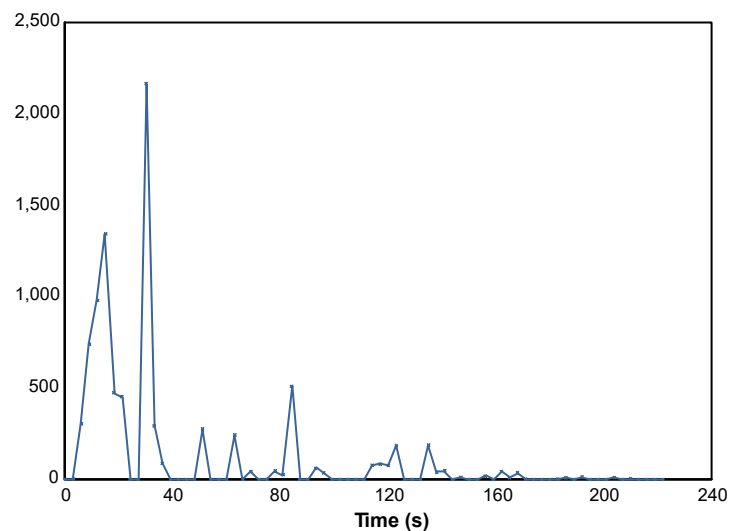
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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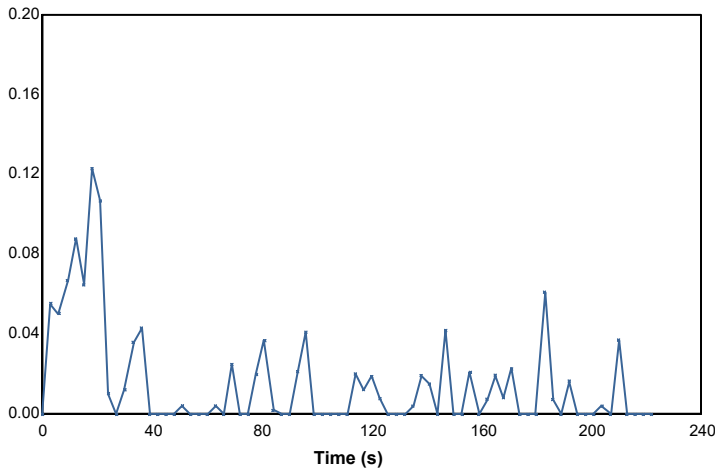
Phone (03) 9371 2400

TEST REPORT

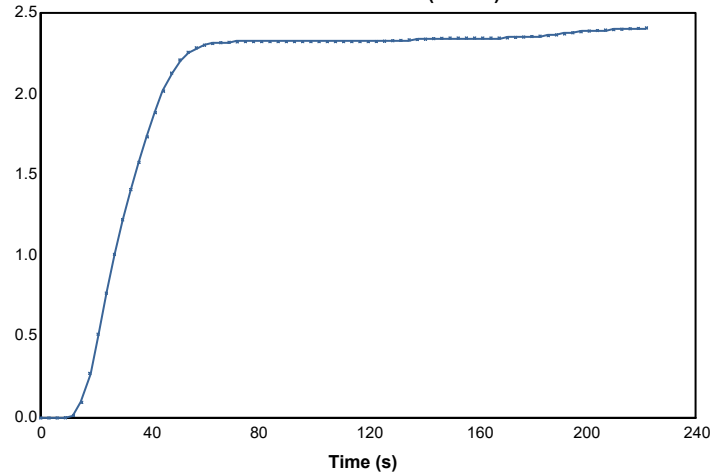
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

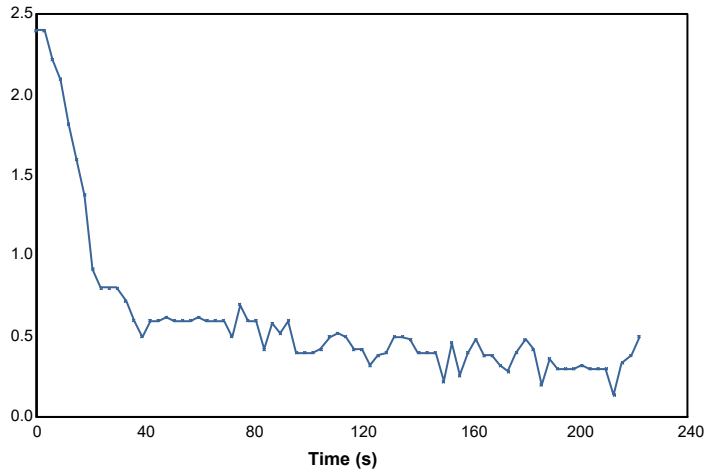
Mass loss rate (g/s)



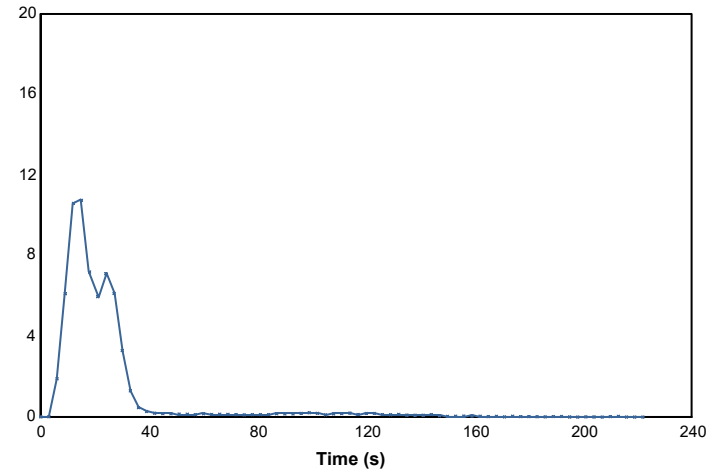
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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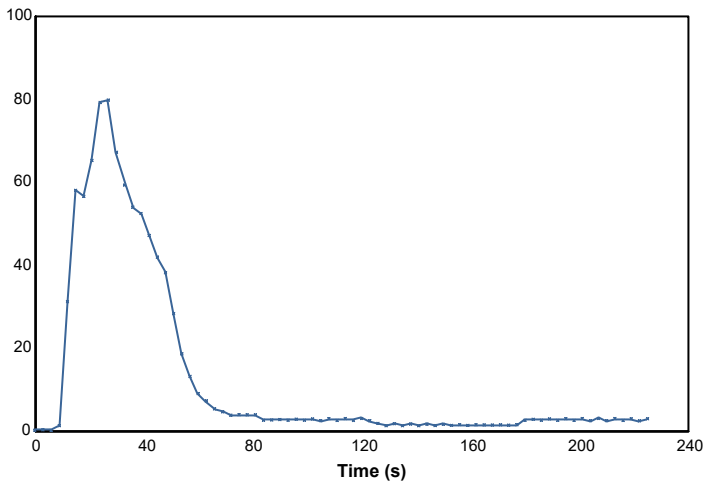
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

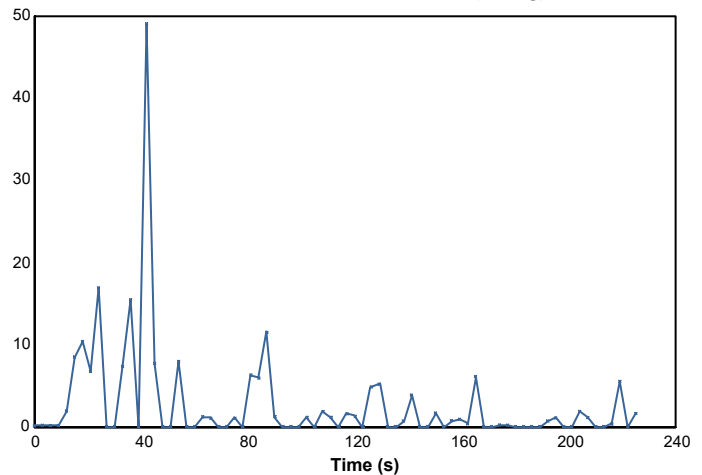
Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

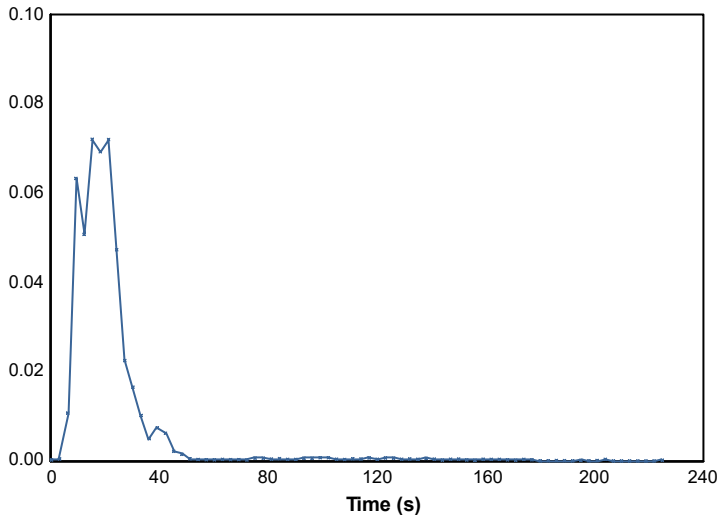
Heat release rate (kW/m²)



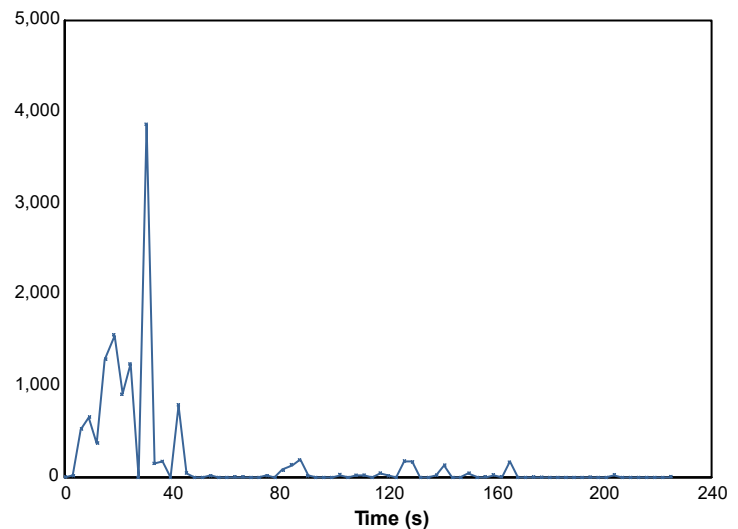
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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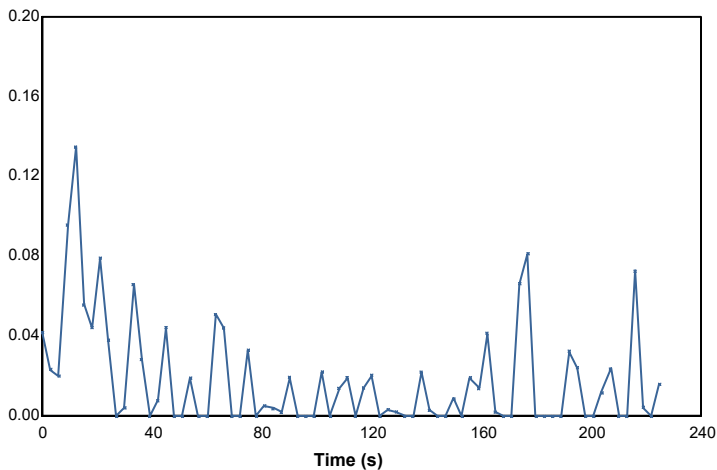
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TEST REPORT

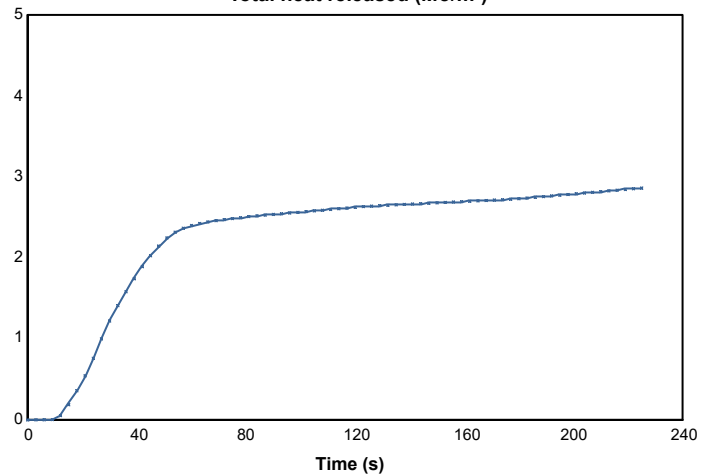
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002648
Issue Date : 28/05/2021
Print Date : 28/05/2021

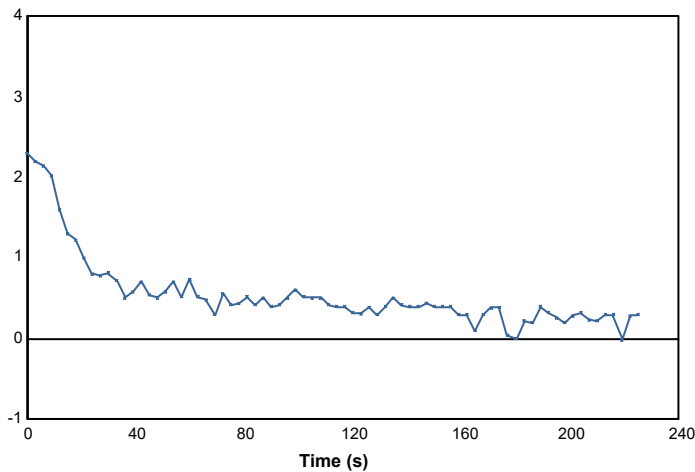
Mass loss rate (g/s)



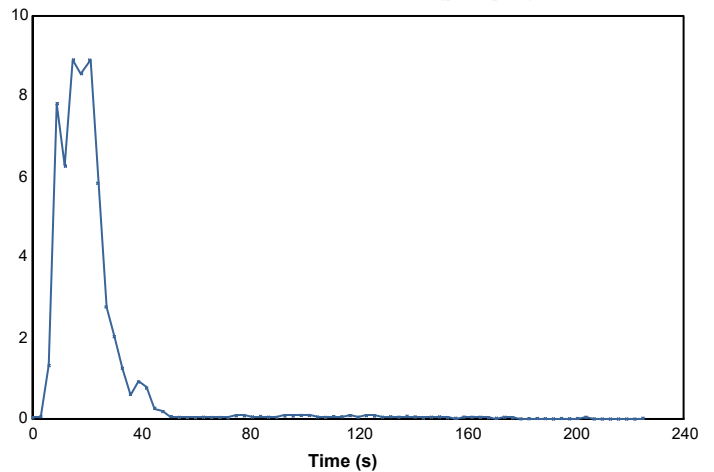
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sponsor Product Clients Ref : "T13 Semi Transparent"
Flexible vinyl film
Colour : Transparent
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 641.9 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "T13 Semi Transparent"
Flexible vinyl film
Colour : Transparent
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 29-01-2021
Face Tested Non Gloss Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	12.3	13.7	14.3	13.4	kW/m ²
Average Specific extinction area	692.1	487.8	745.8	641.9	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	15	10	15	13	sec
Test duration	197	192	197	195	sec
Peak heat release after ignition	83.2	83.1	83.0	83.1	kW/m ²
Average heat at 60 s	30.2	34.9	32.4	32.5	kW/m ²

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 180 s	12.5	13.7	14.5	13.5	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.2	2.5	2.6	2.4	MJ/m ²
Average effective heat of combustion	12.0	11.2	16.3	13.2	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	1.8	2.3	1.9	2.0	g
Mass remaining	0.4	0.3	0.6	0.4	g
Mass percentage pyrolysed	78.8	86.1	67.5	77.5	%
Mass loss	0.2	0.2	0.2	0.2	kg/m ²
Average rate of mass loss	1.0	1.2	0.9	1.0	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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Chris Campbell
APPROVED SIGNATORY



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MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

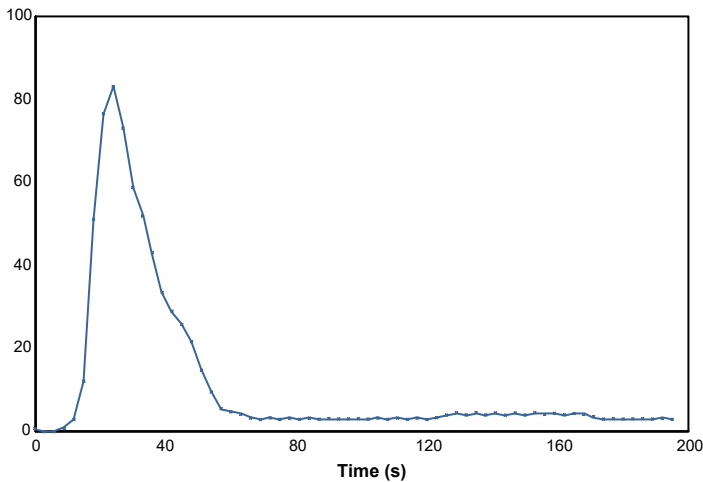
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

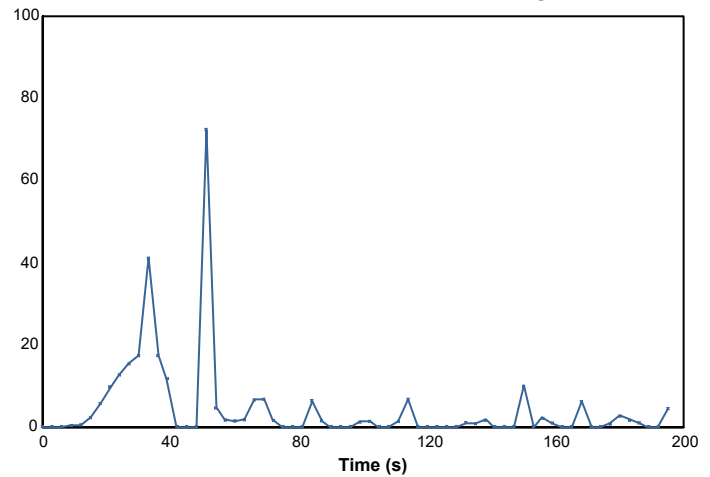
Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

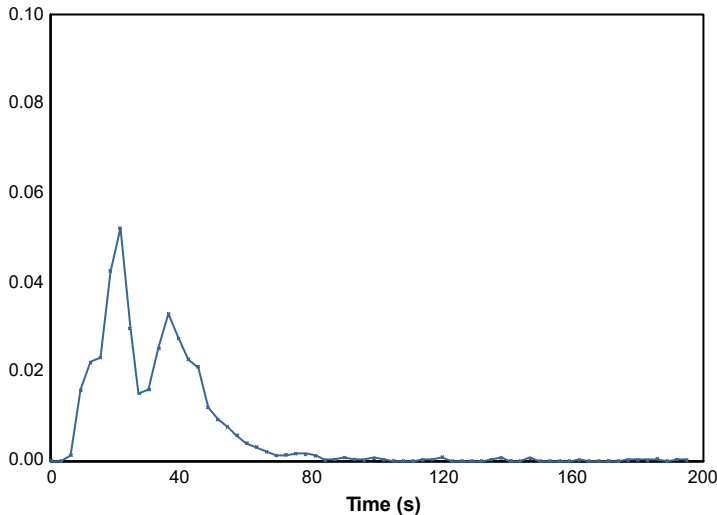
Heat release rate (kW/m²)



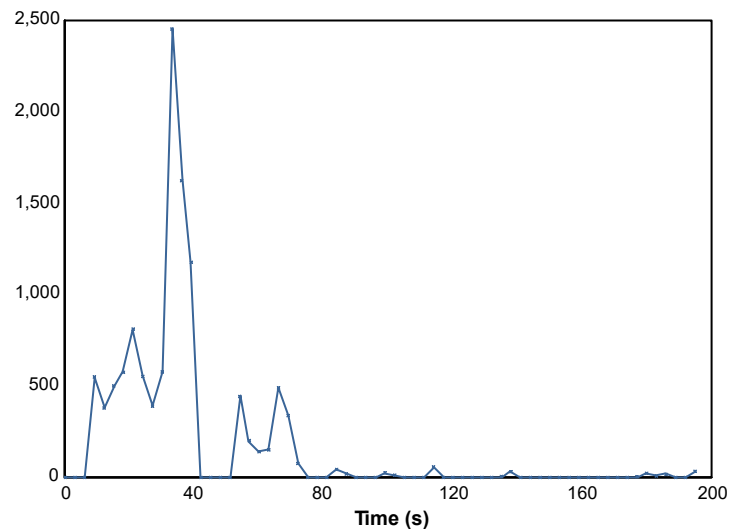
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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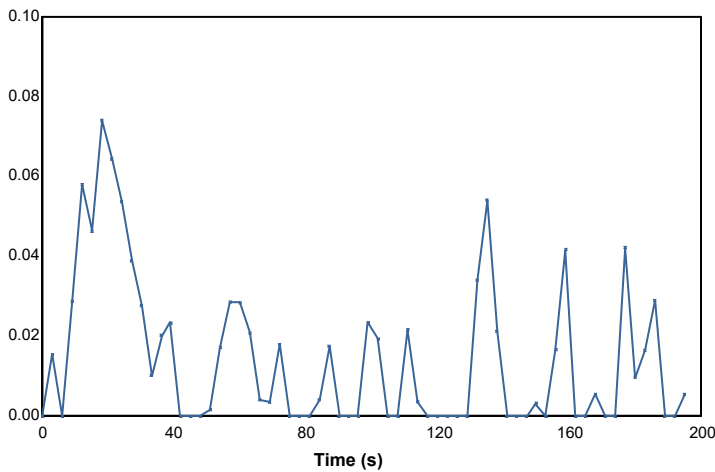
Phone (03) 9371 2400

TEST REPORT

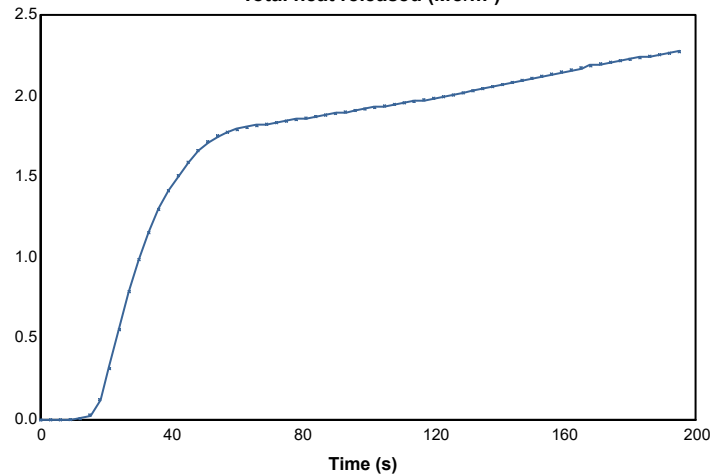
Client : NEWMAT S.A.S.
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FRANCE

Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

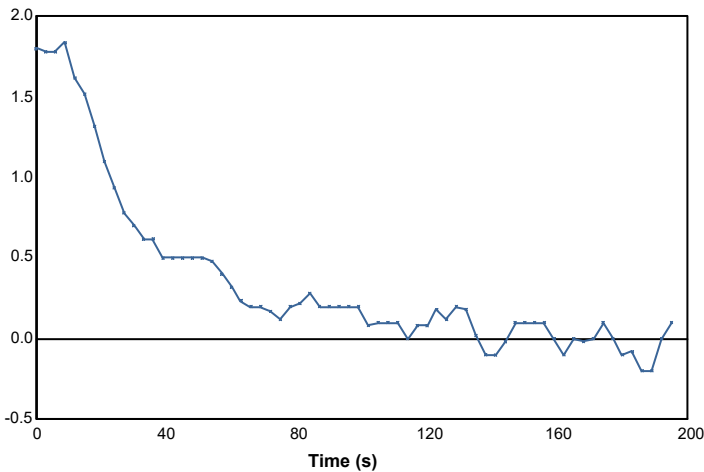
Mass loss rate (g/s)



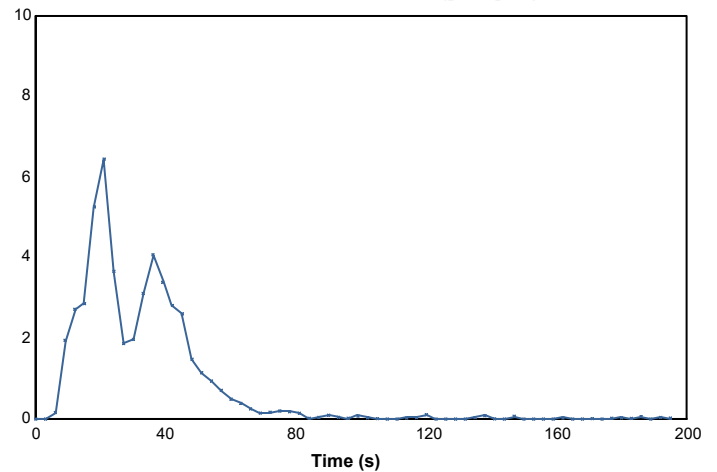
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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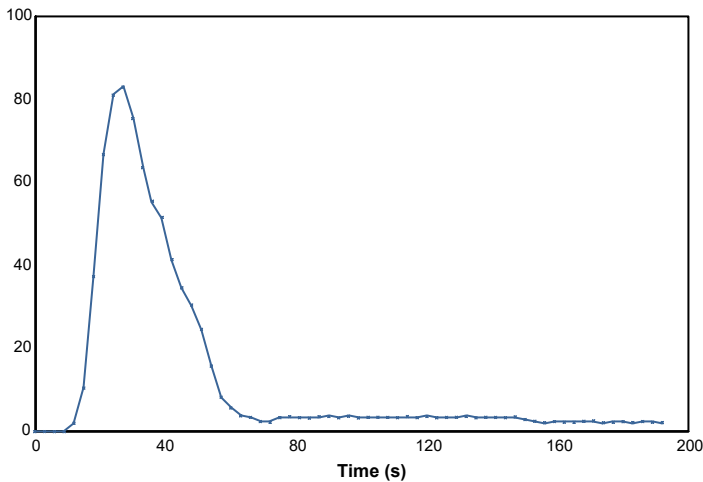
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

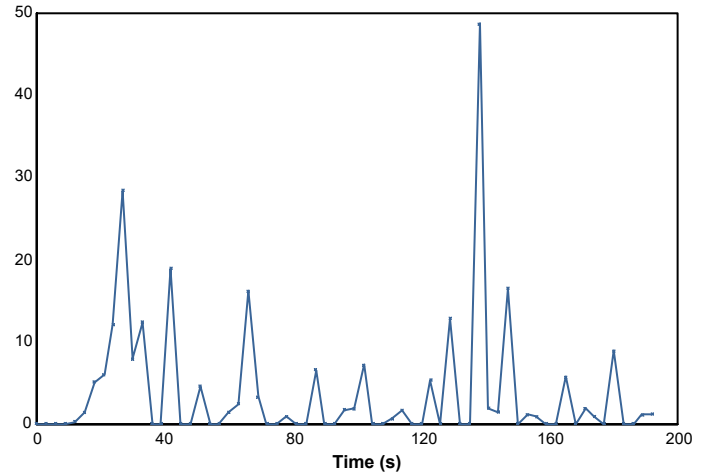
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Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 2

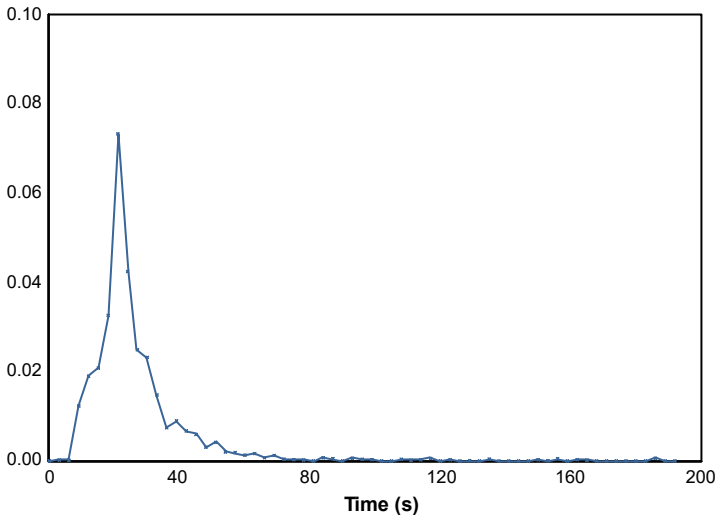
Heat release rate (kW/m²)



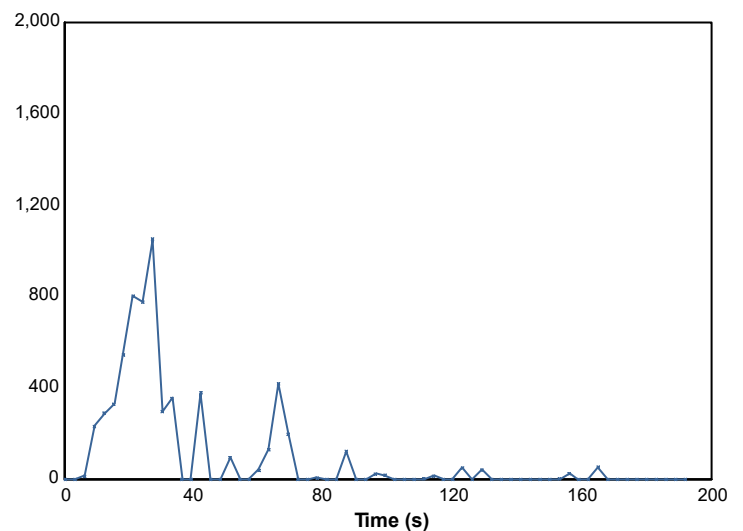
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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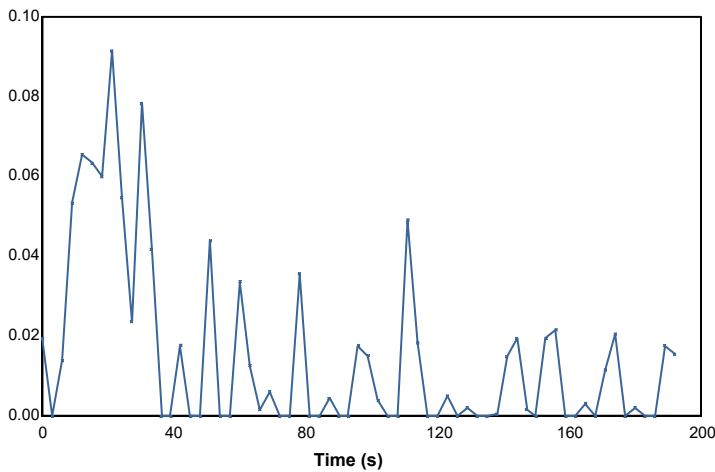
Phone (03) 9371 2400

TEST REPORT

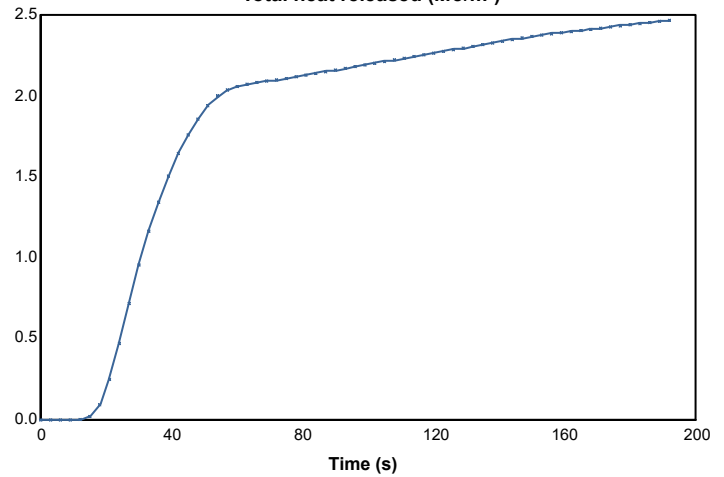
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

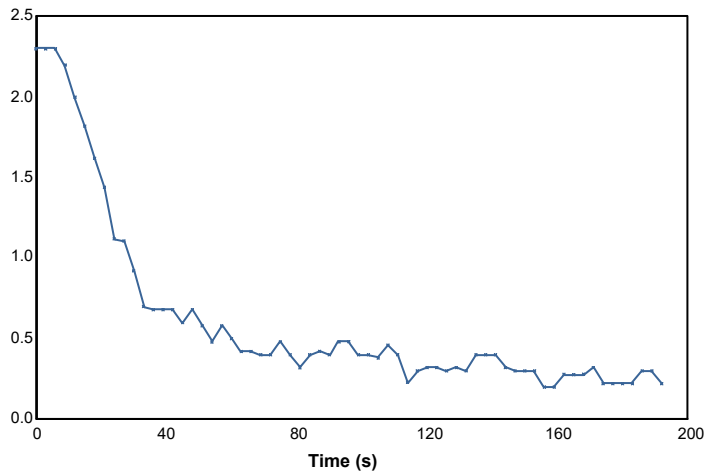
Mass loss rate (g/s)



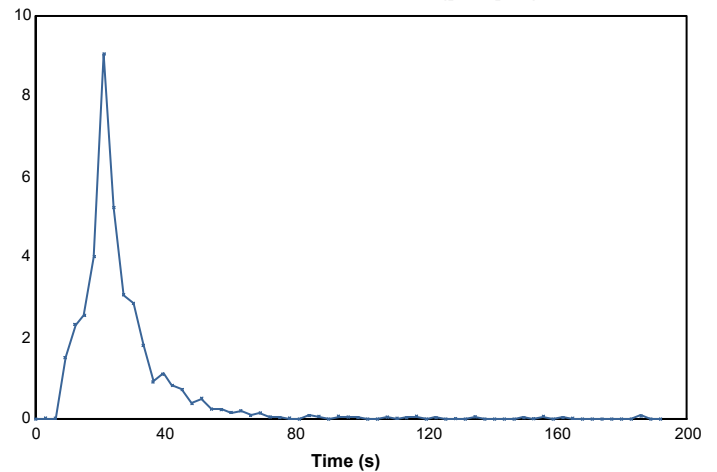
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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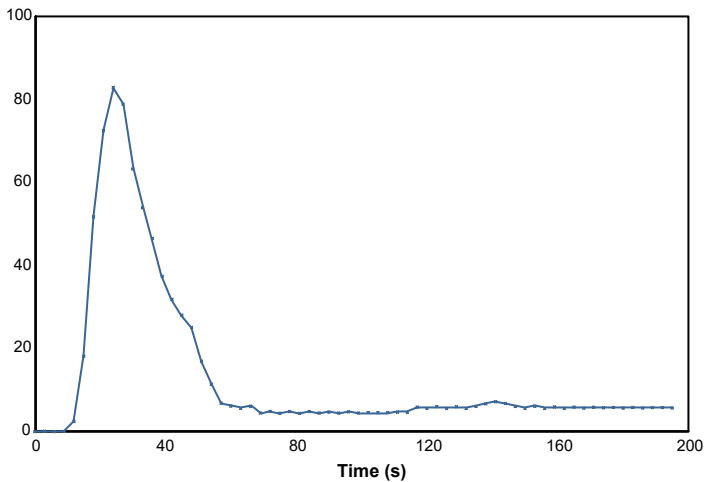
TEST REPORT

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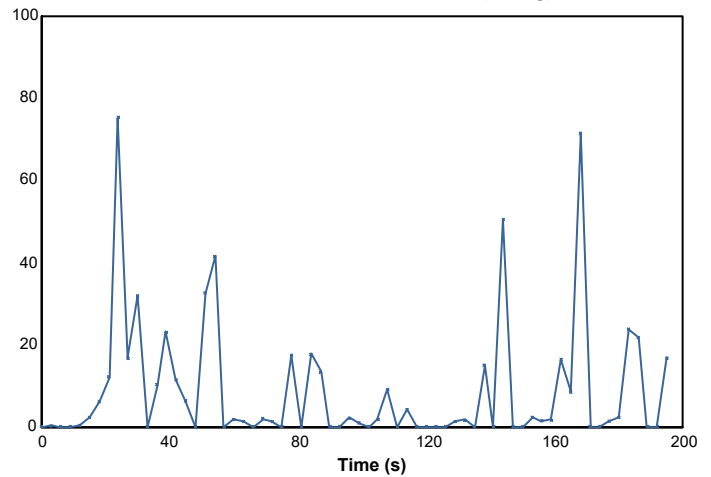
Test Number : 21-002645
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

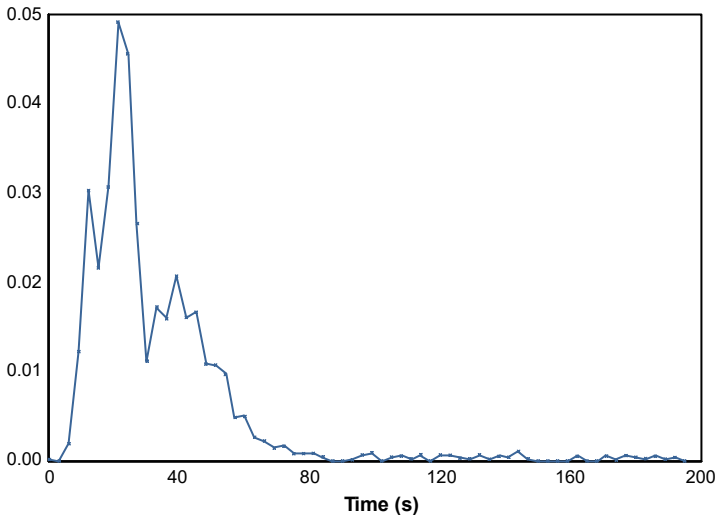
Heat release rate (kW/m²)



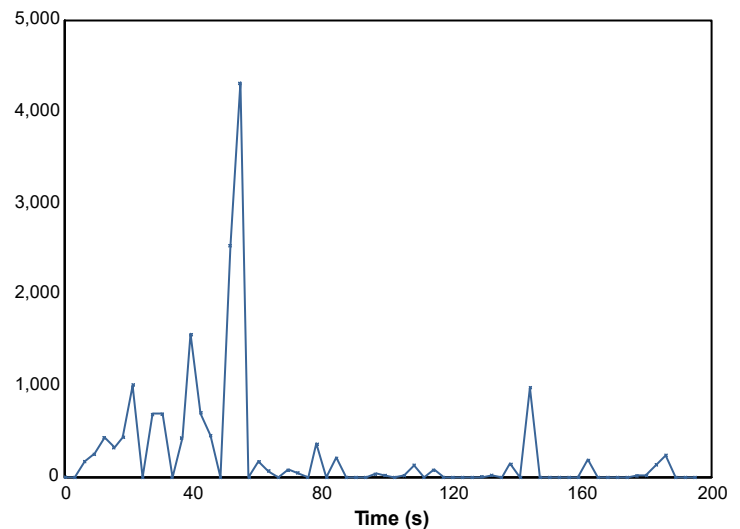
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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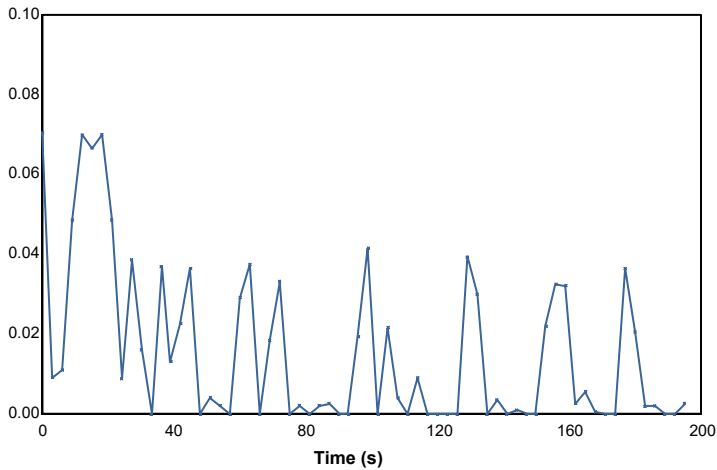
Phone (03) 9371 2400

TEST REPORT

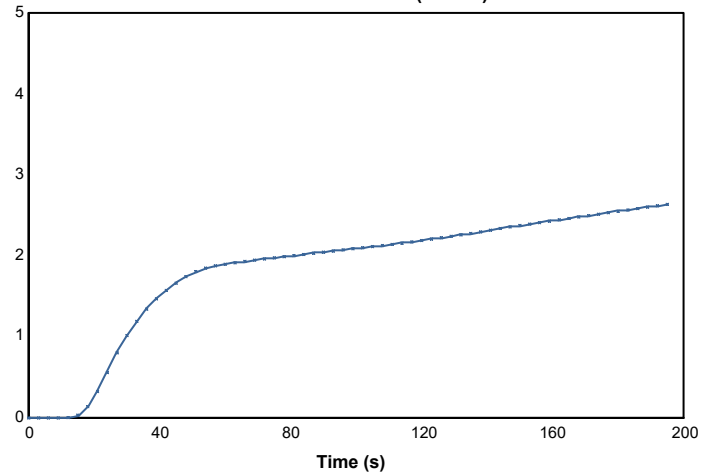
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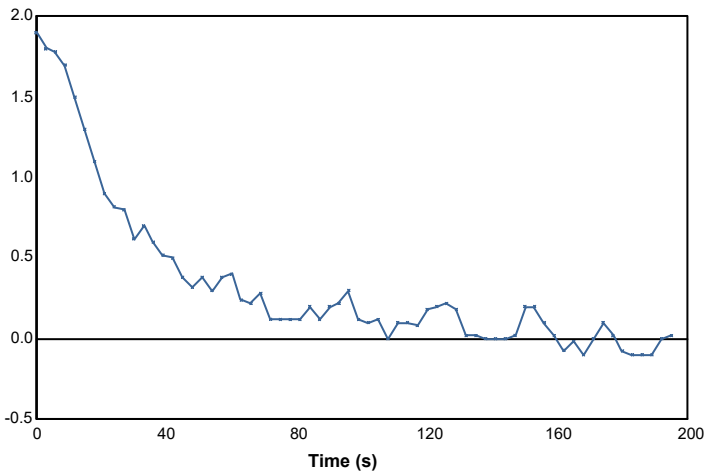
Mass loss rate (g/s)



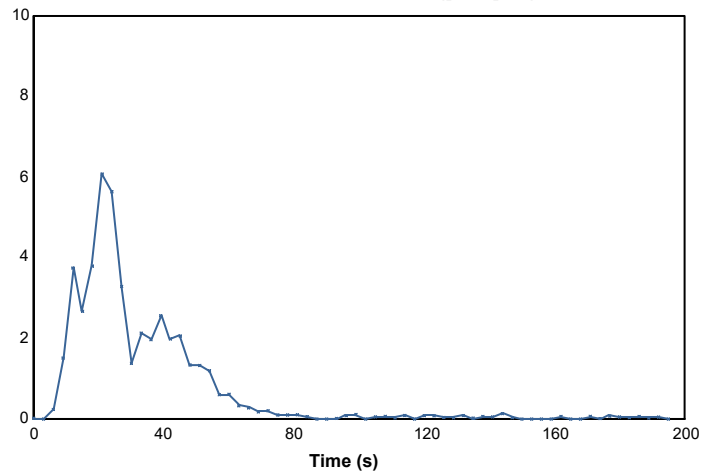
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "T1320 Translucide"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 409.7 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

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130 / 140 Fue Rene Cauche
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Test Number : 21-002663
Issue Date : 28/05/2021
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Sample Description Clients Ref : "T1320 Translucide"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 03-02-2021
Face Tested Gloss Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	16.3	19.8	19.4	26.5	23.4	26.6	22.0	kW/m ²
Average Specific extinction area	483.6	433.7	371.6	318.3	463.2	387.9	409.7	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	6	6	5	5	6	4	5	sec
Test duration	188	188	187	187	188	186	187	sec
Peak heat release after ignition	57.8	100.1	70.5	98.5	109.0	113.6	91.6	kW/m ²
Average heat at 60 s	30.5	42.9	38.1	52.6	48.2	54.4	44.4	kW/m ²
Average heat at 180 s	16.5	20.0	19.6	26.9	23.7	26.6	22.2	kW/m ²

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Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.0	3.6	3.5	4.9	4.3	4.8	4.0	4.0	MJ/m ²
Ave. effective heat of combustion	11.2	12.8	12.0	17.8	16.5	16.2	14.4	14.4	MJ/kg
Initial thickness	0.17	0.17	0.17	0.17	0.17	0.17	0.2	0.2	mm
Initial mass	2	2.1	2.2	1.8	2.1	2	2.0	2.0	g
Mass remaining	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	g
Mass percentage pyrolysed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	%
Mass loss	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.4	1.5	1.6	1.4	1.4	1.6	1.5	1.5	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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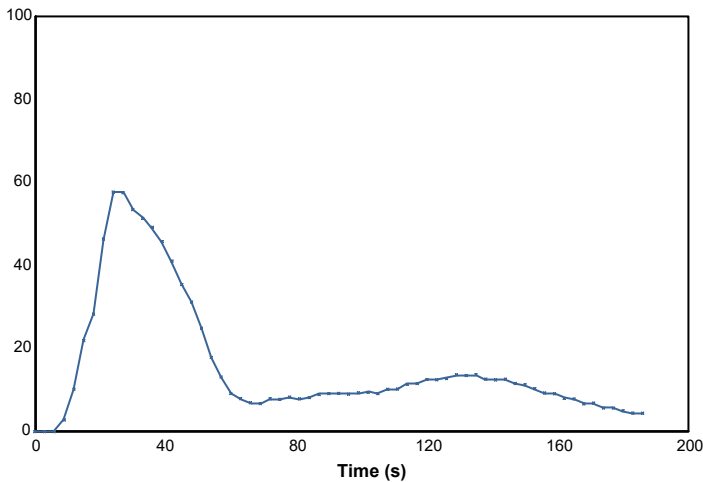
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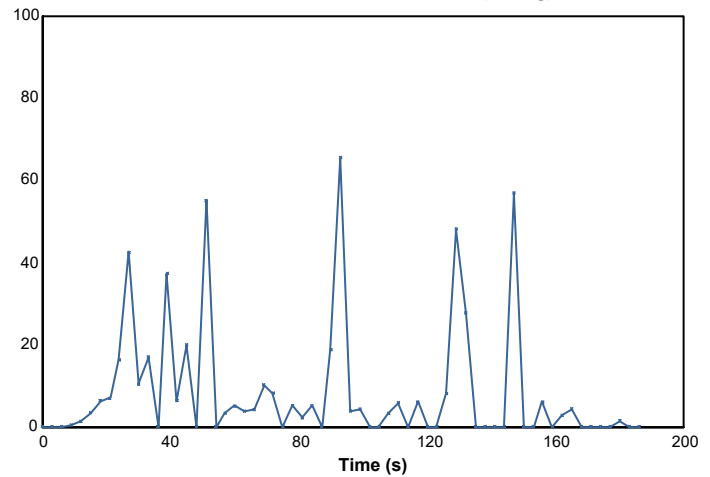
Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

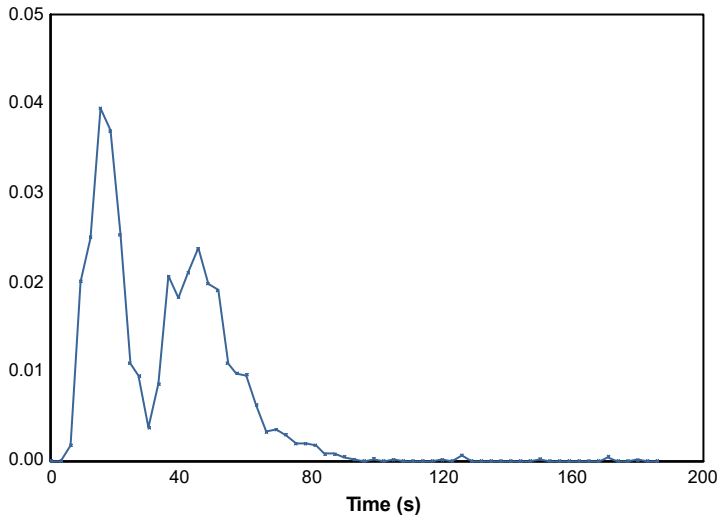
Heat release rate (kW/m²)



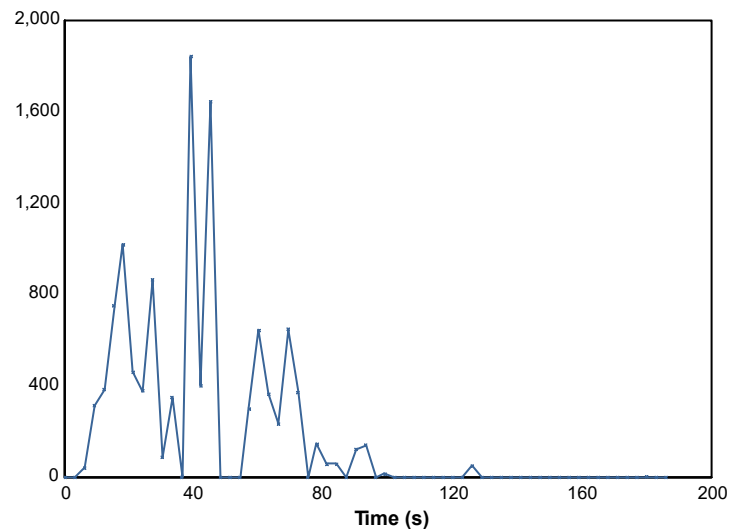
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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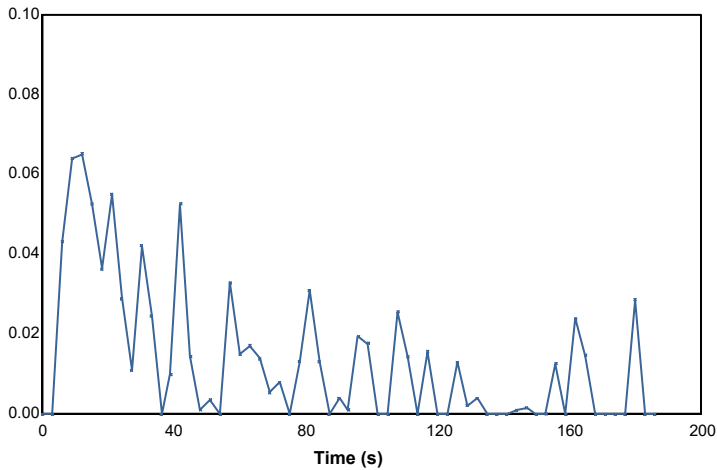
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TEST REPORT

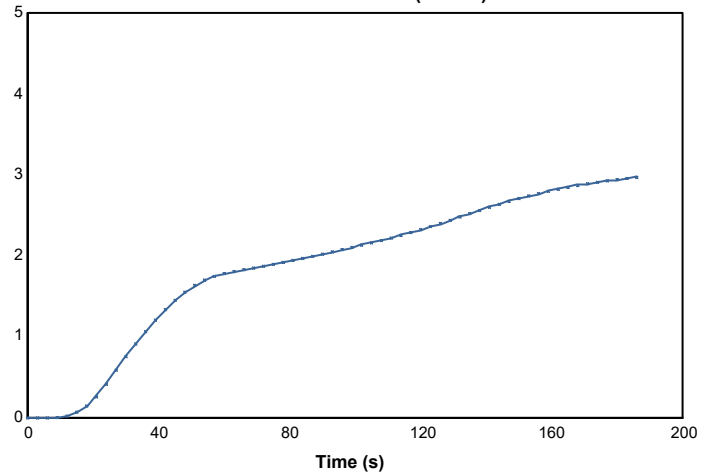
Client : NEWMAT S.A.S.
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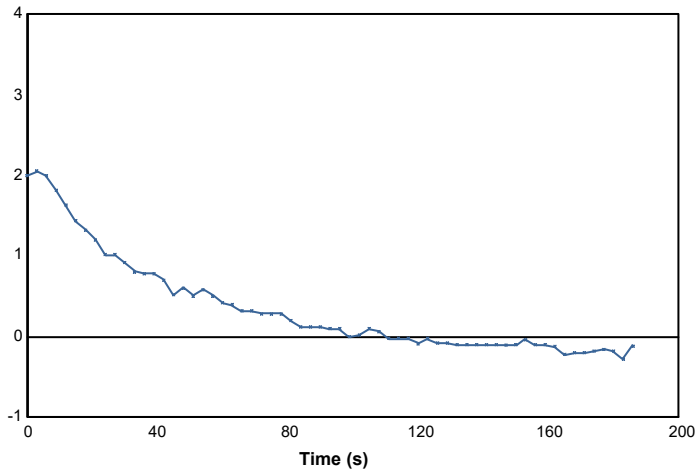
Mass loss rate (g/s)



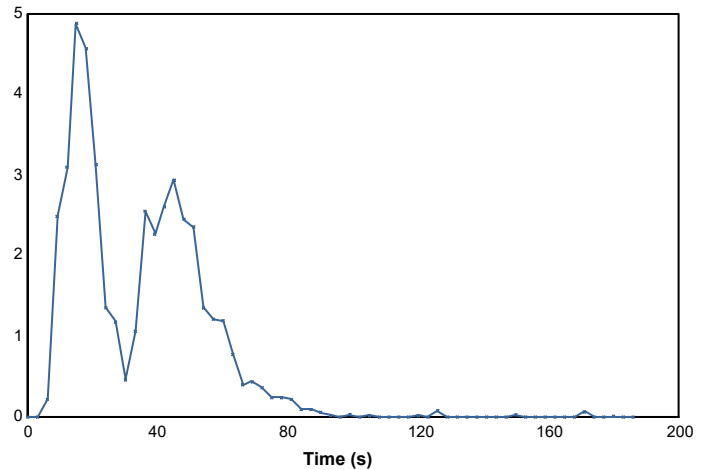
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Chris Campbell
APPROVED SIGNATORY




MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

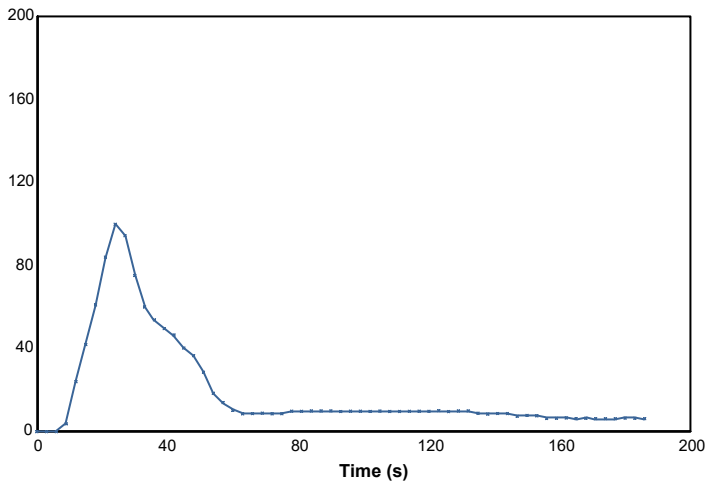
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

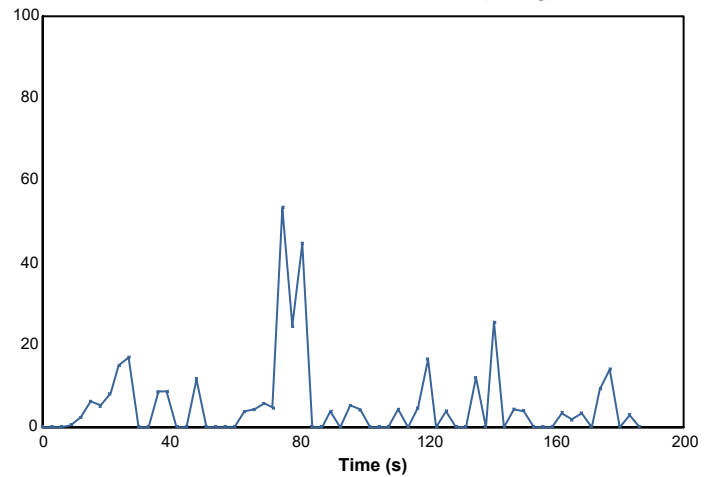
Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

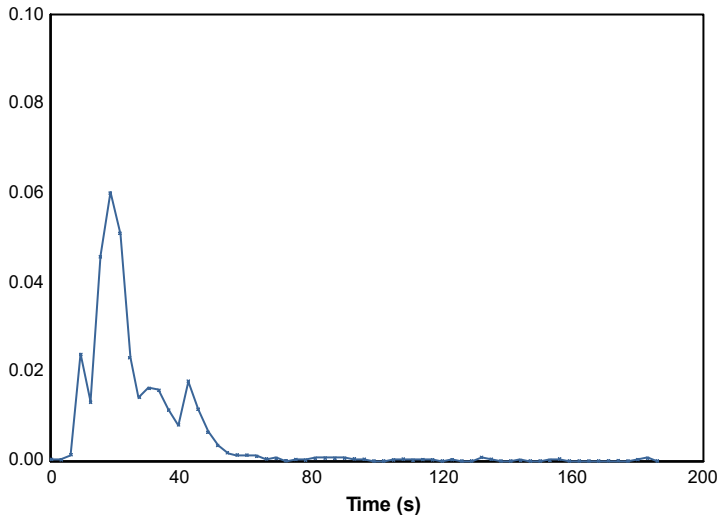
Heat release rate (kW/m²)



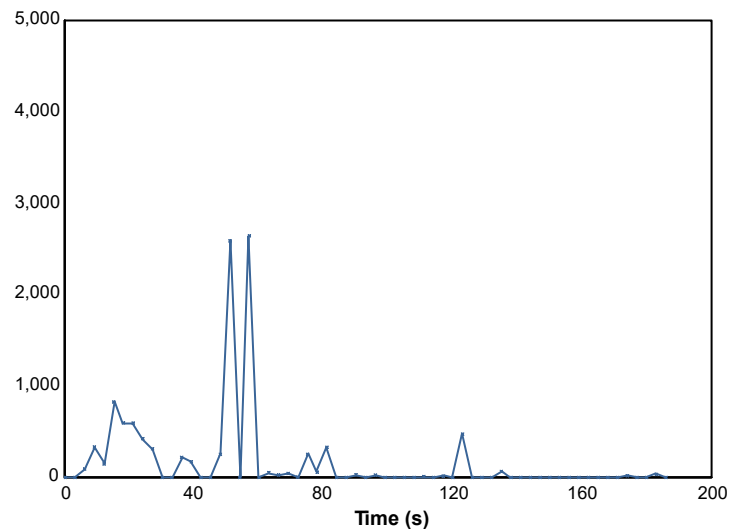
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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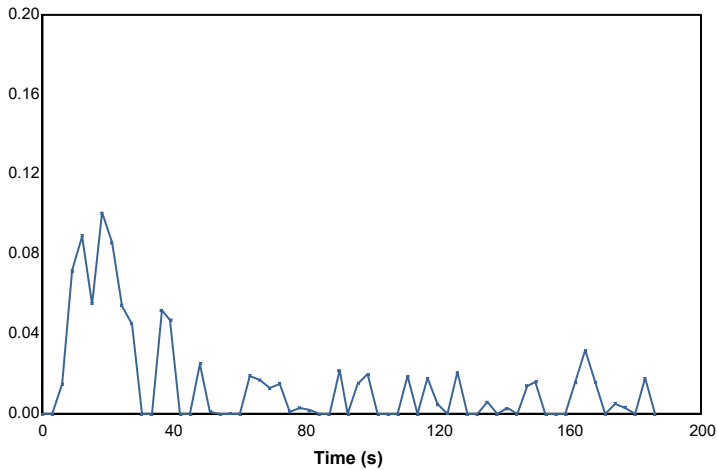
Phone (03) 9371 2400

TEST REPORT

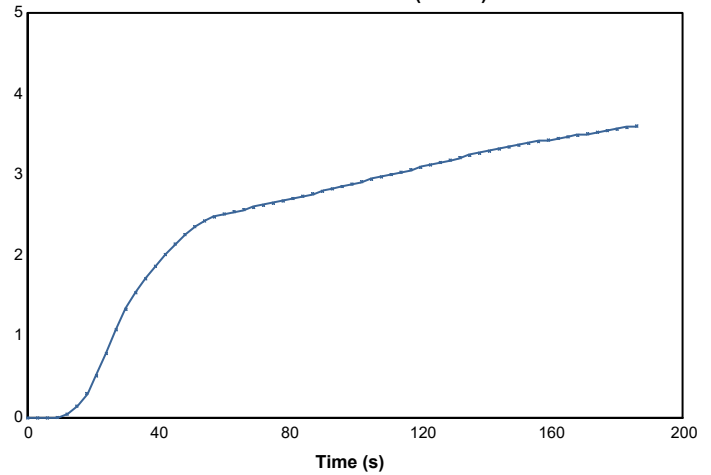
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
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FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

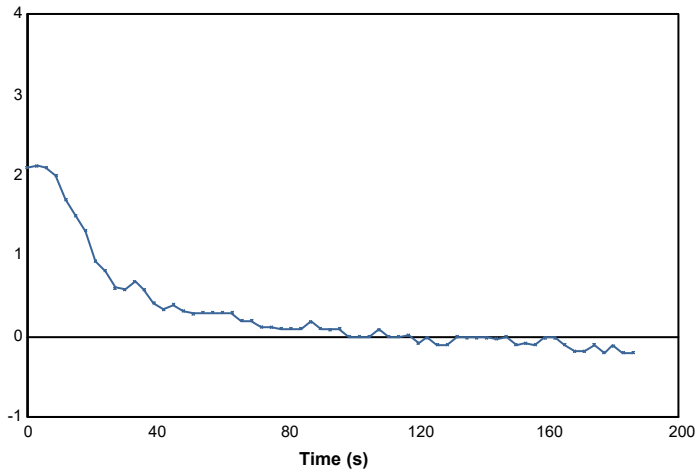
Mass loss rate (g/s)



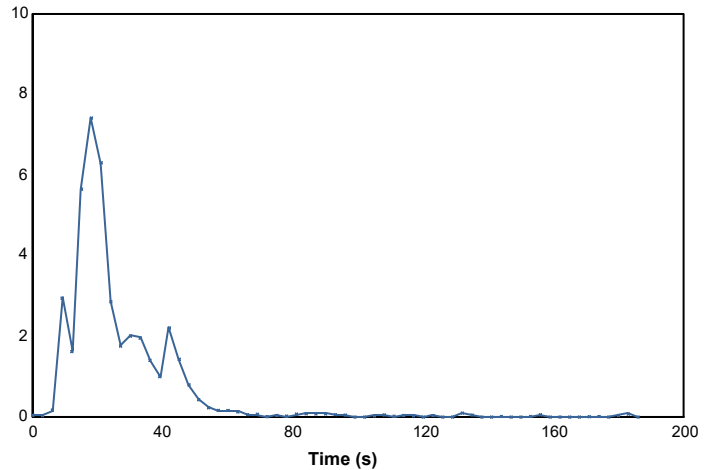
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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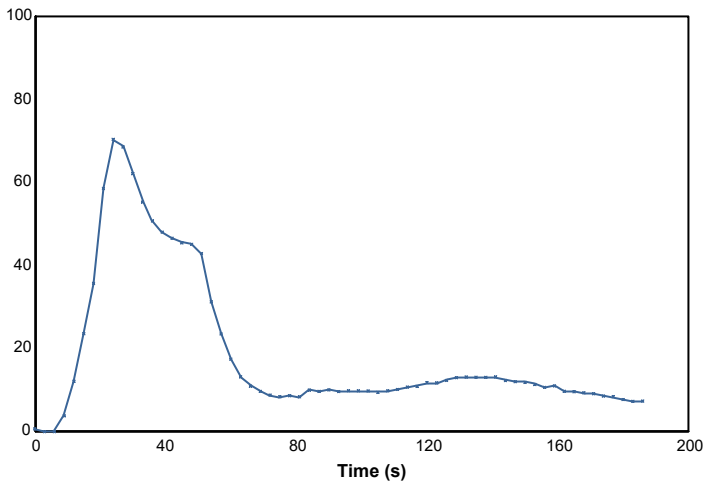
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

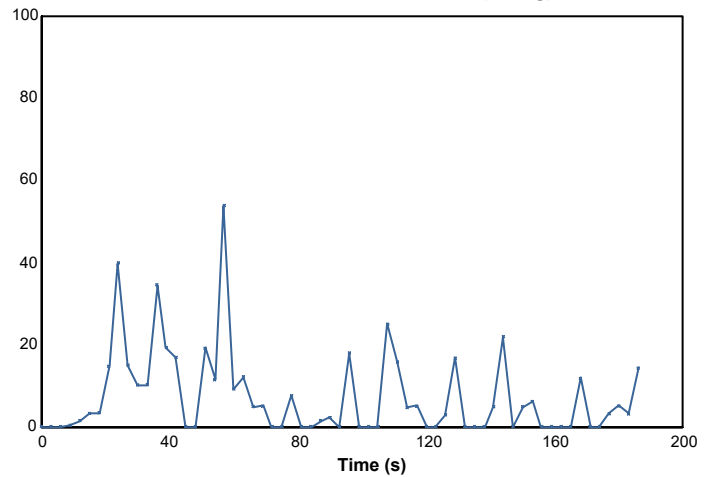
Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

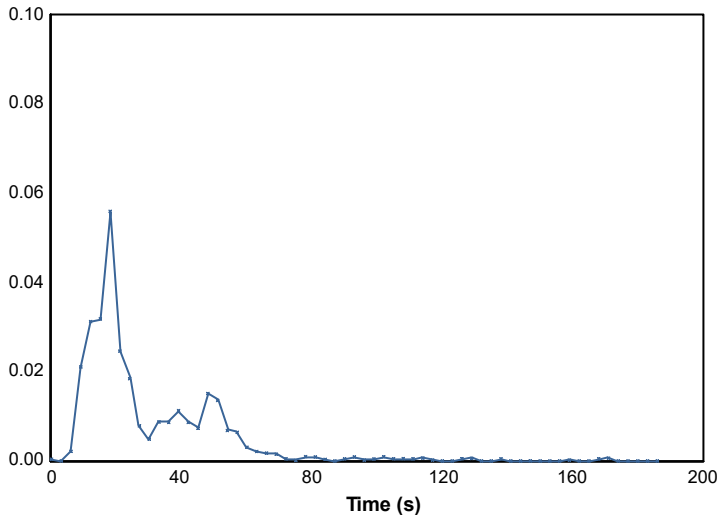
Heat release rate (kW/m²)



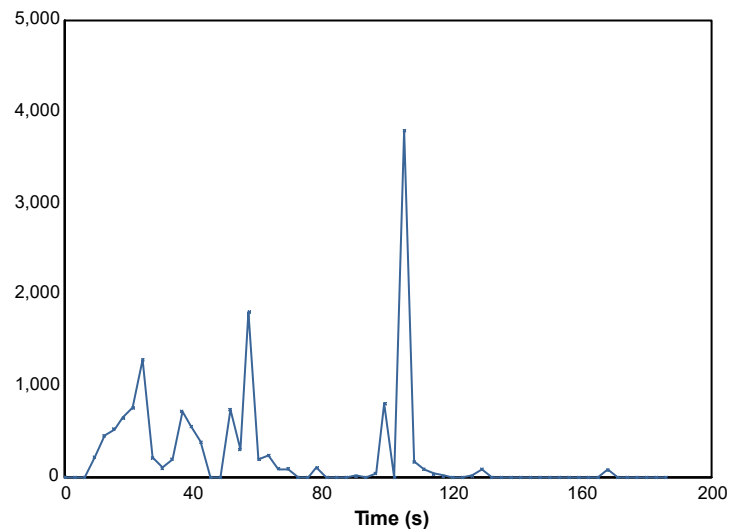
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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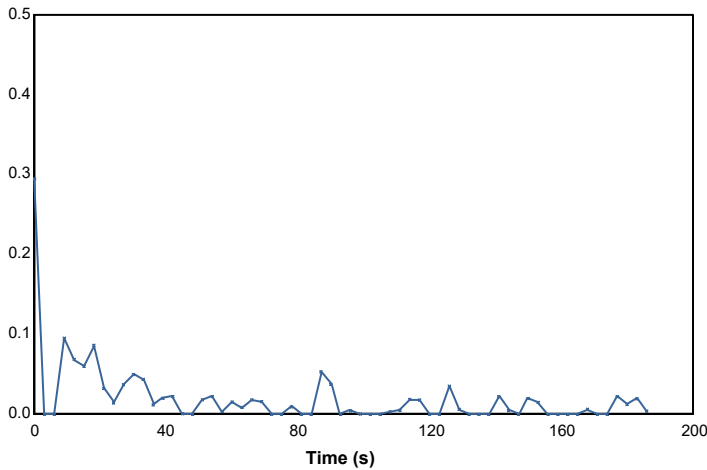
Phone (03) 9371 2400

TEST REPORT

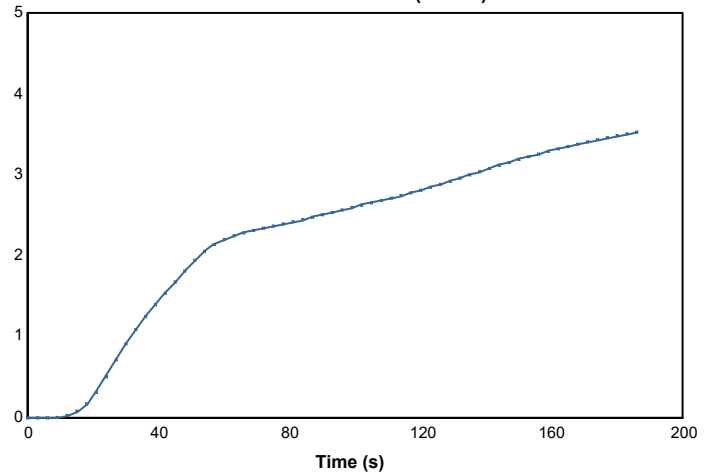
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

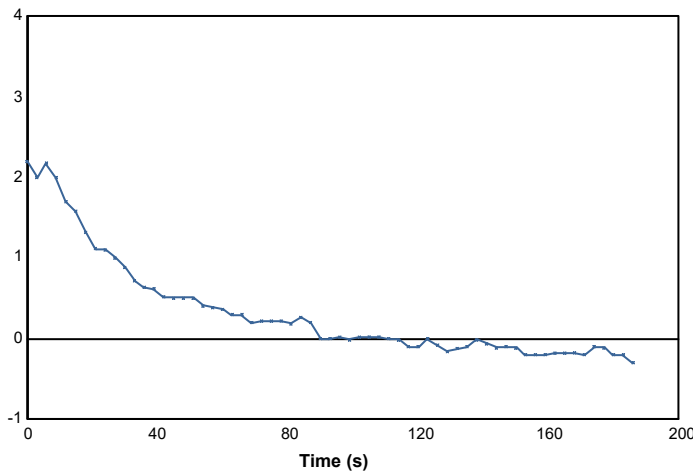
Mass loss rate (g/s)



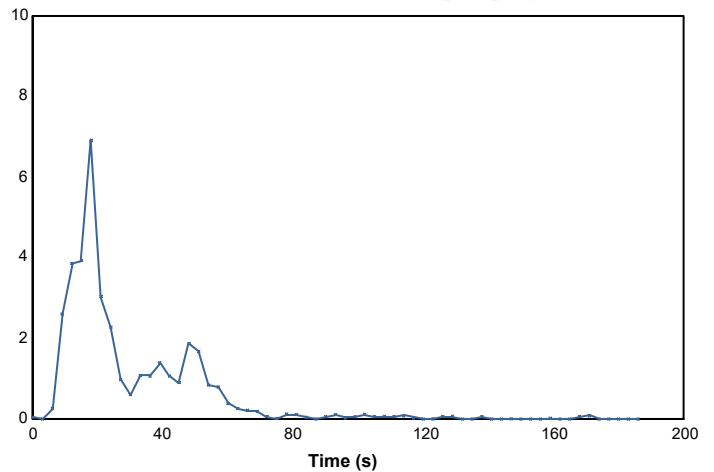
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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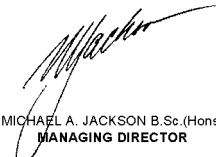
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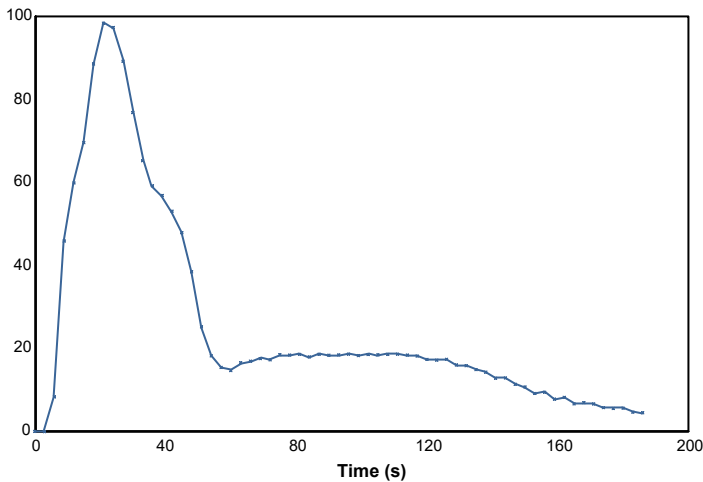
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

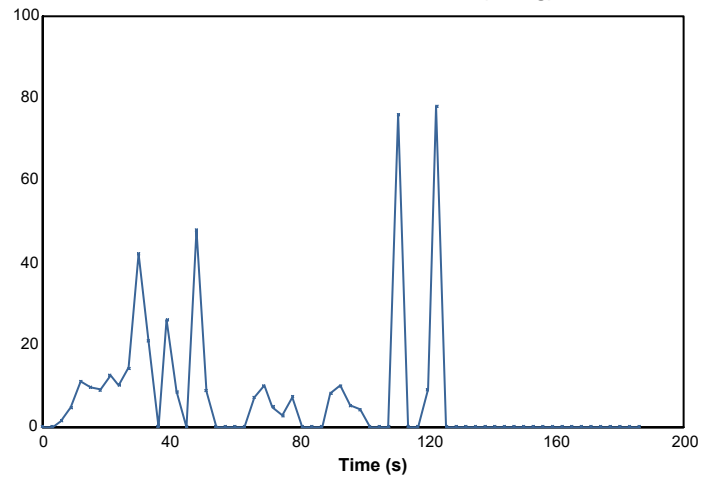
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 4

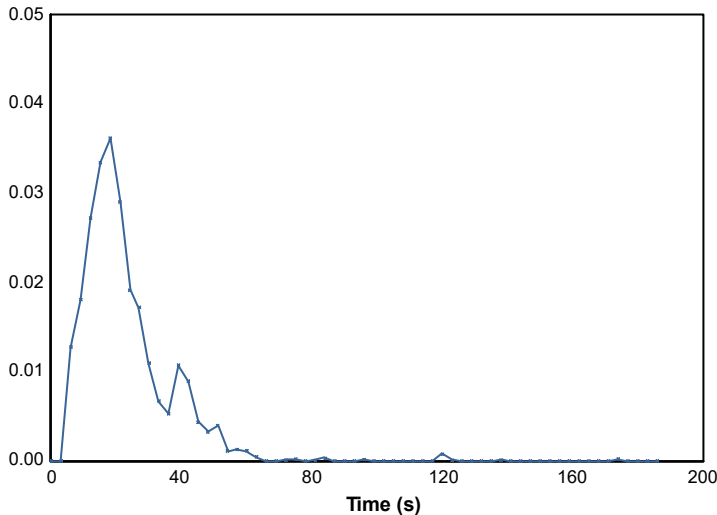
Heat release rate (kW/m²)



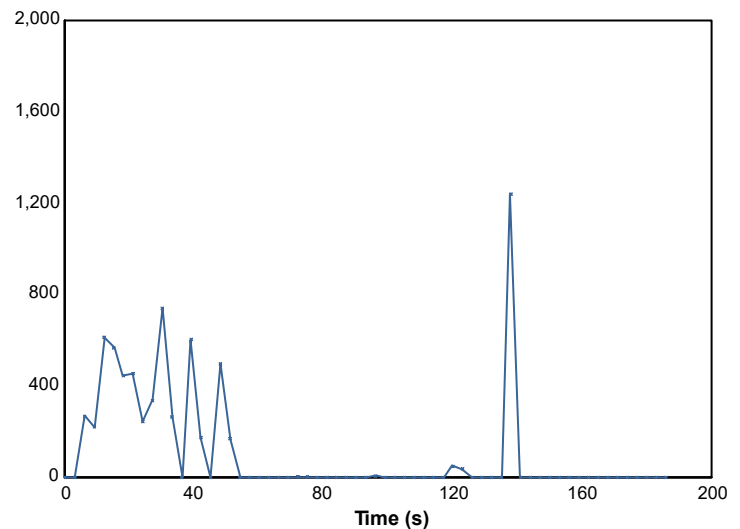
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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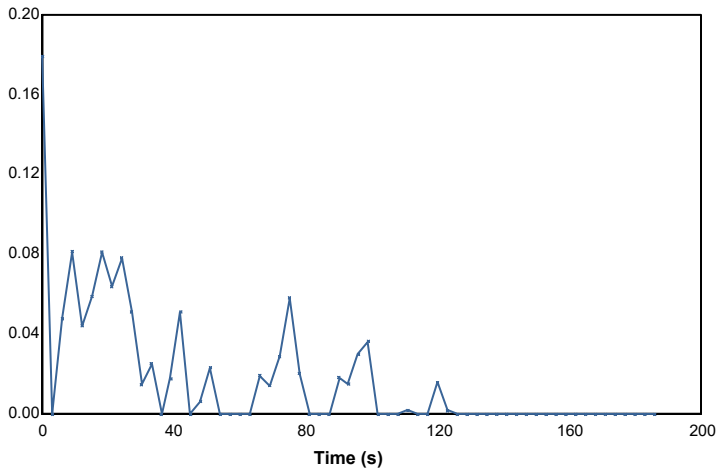
Phone (03) 9371 2400

TEST REPORT

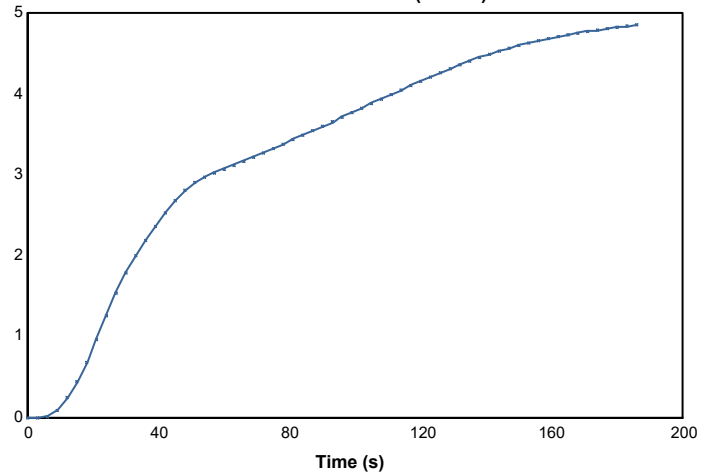
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

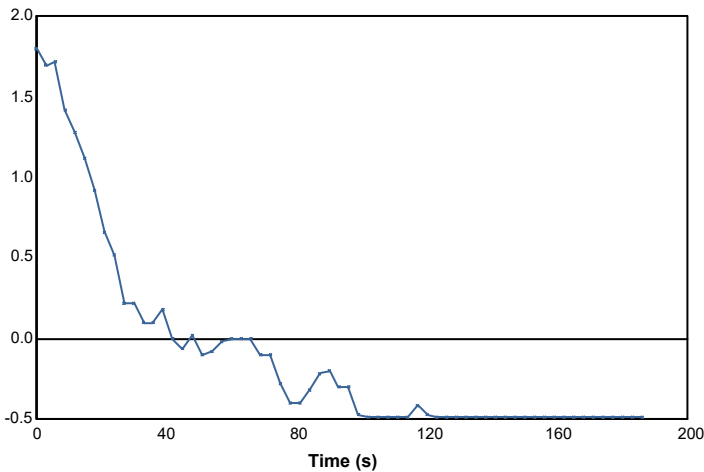
Mass loss rate (g/s)



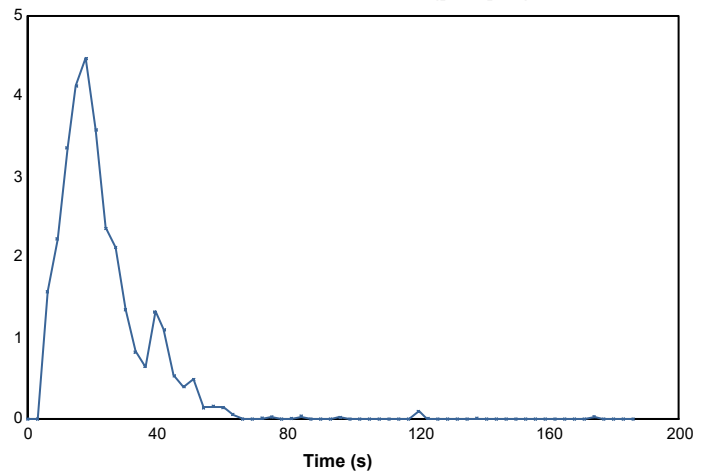
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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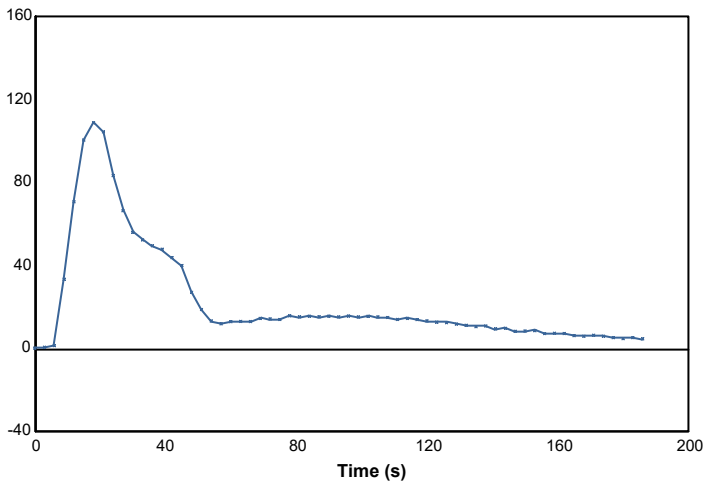
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

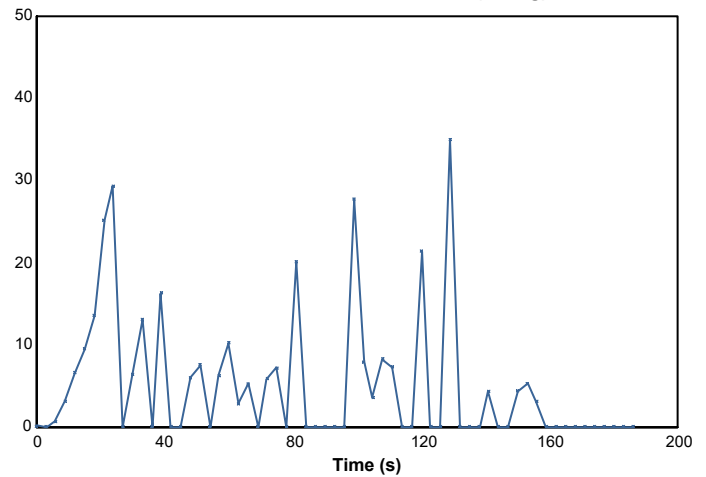
Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 5

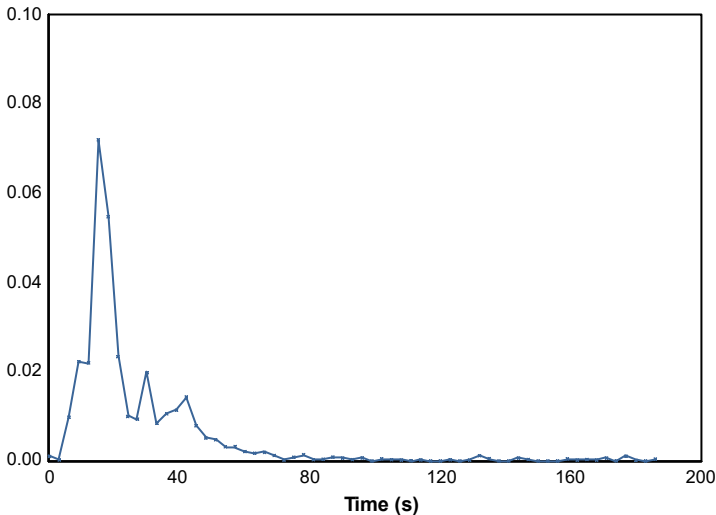
Heat release rate (kW/m²)



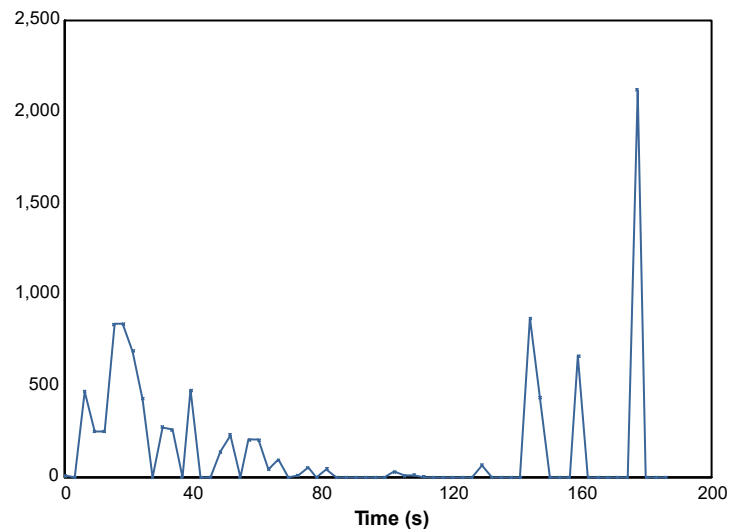
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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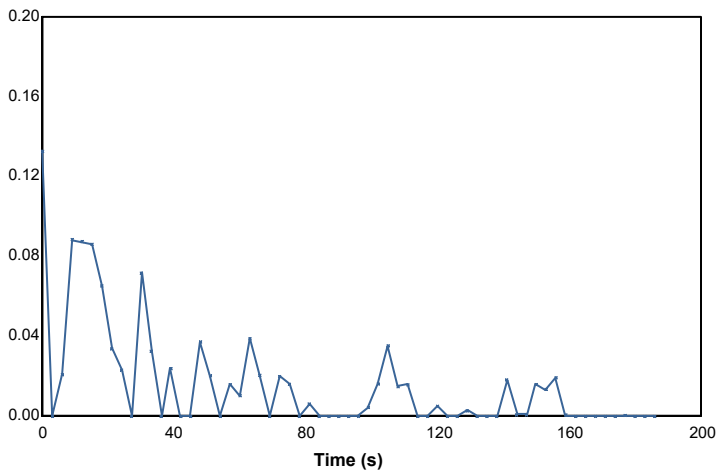
Phone (03) 9371 2400

TEST REPORT

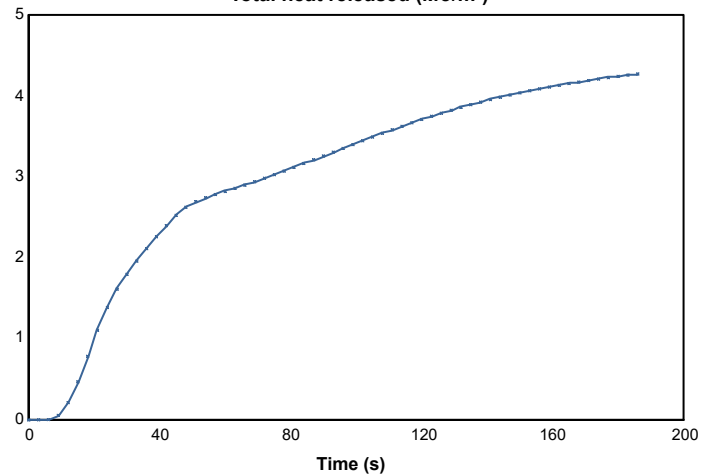
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

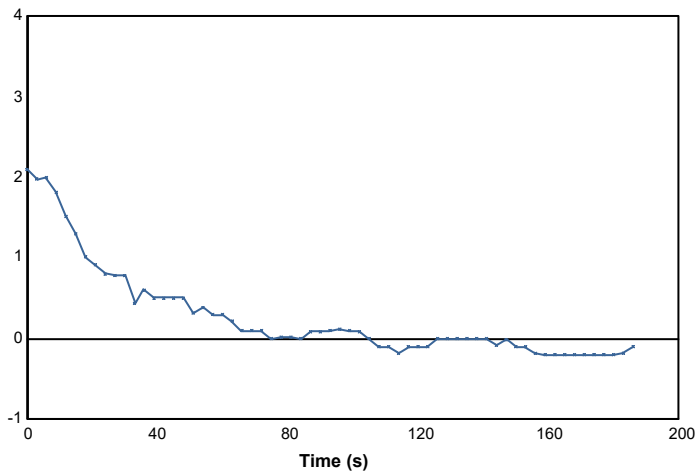
Mass loss rate (g/s)



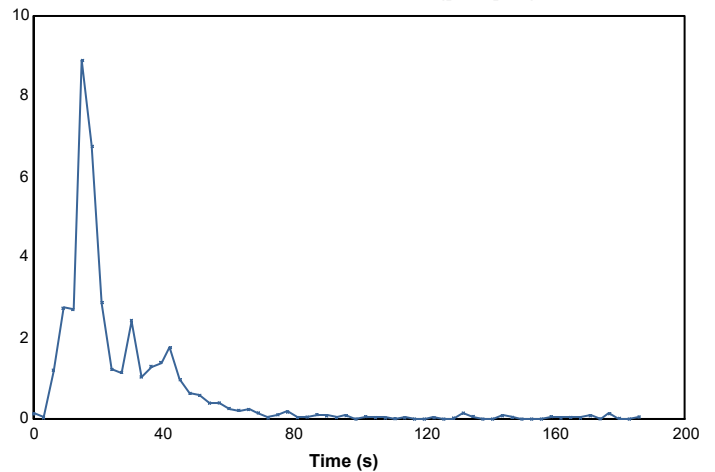
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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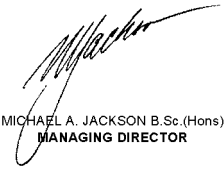
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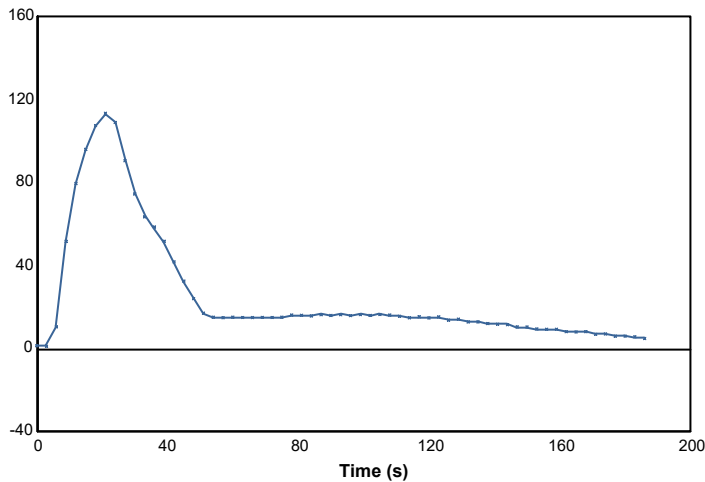
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
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FRANCE

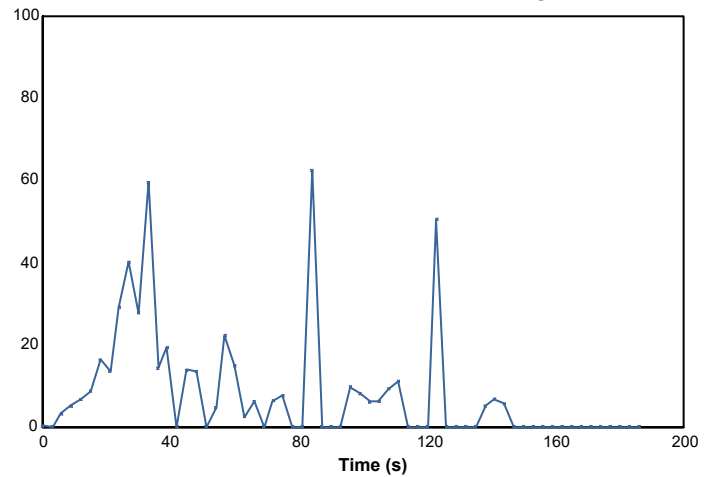
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 6

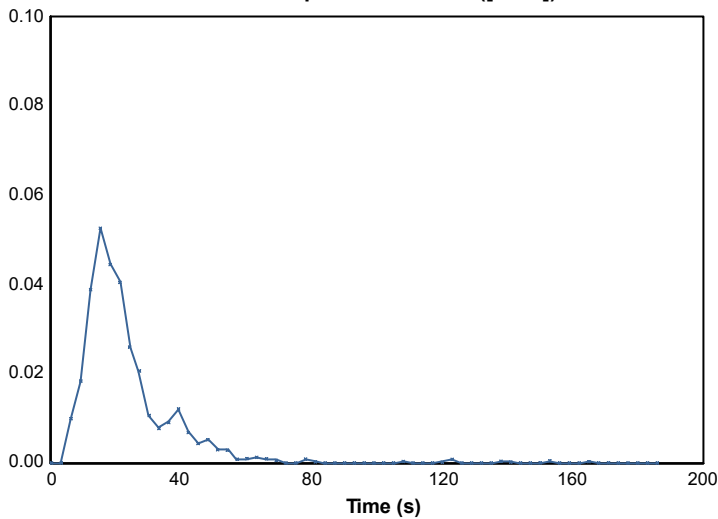
Heat release rate (kW/m²)



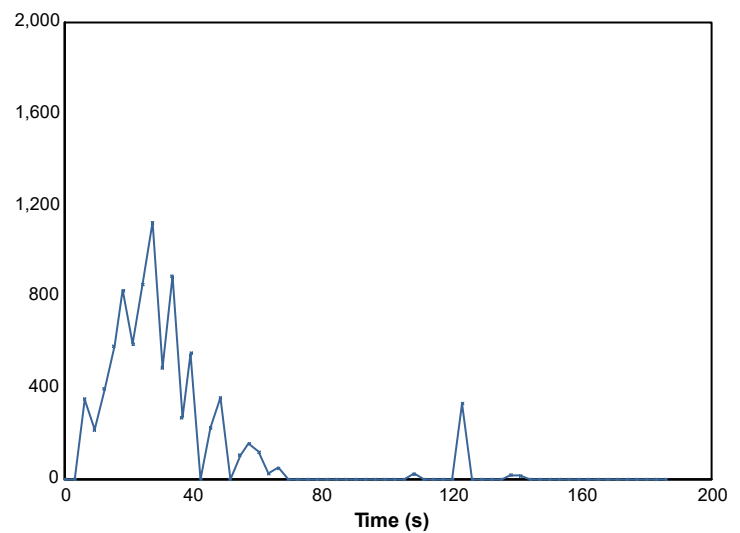
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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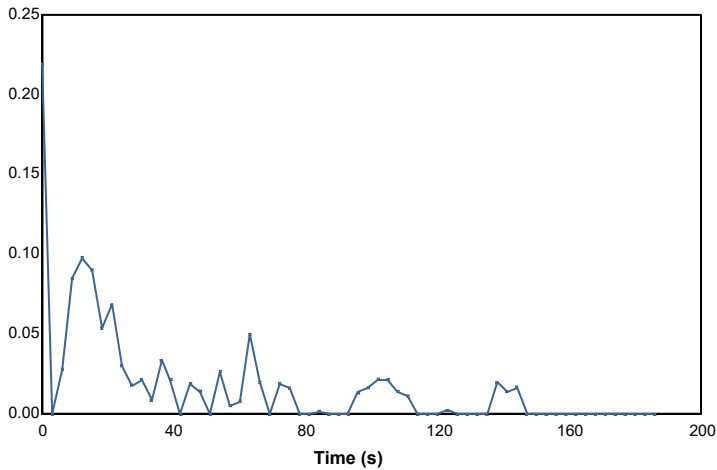
Phone (03) 9371 2400

TEST REPORT

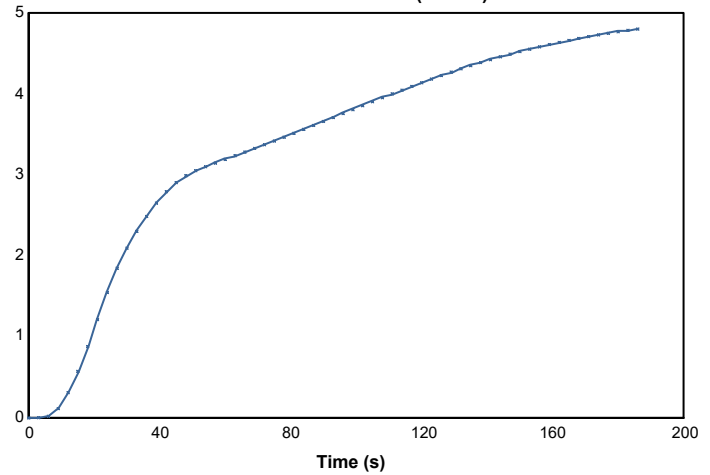
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002663
Issue Date : 28/05/2021
Print Date : 28/05/2021

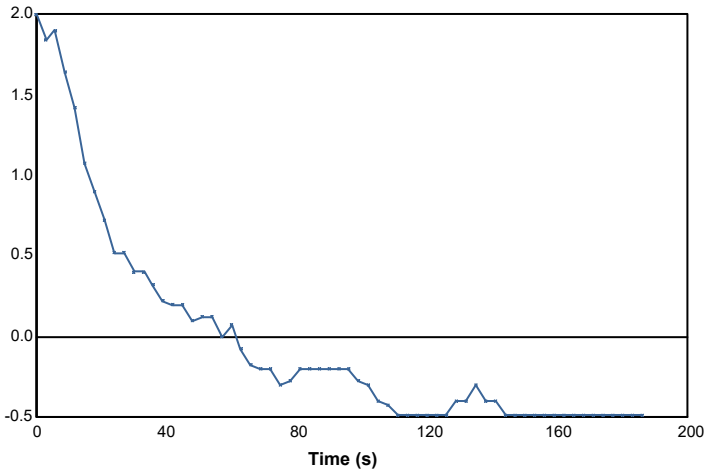
Mass loss rate (g/s)



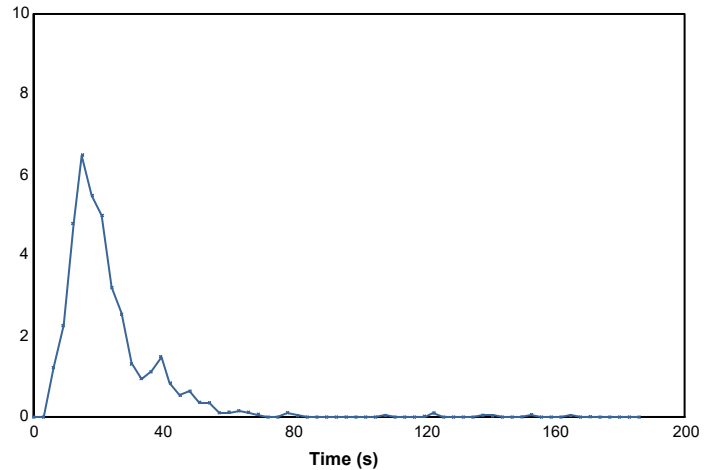
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sponsor Product Clients Ref : "TOB Blanc"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx: 230g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 721.9 m²/kg



Fiona McDonald
Testing Technologist

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AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "TOB Blanc"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx: 230g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	12.4	12.1	14.1	12.9	kW/m ²
Average Specific extinction area	760.9	688.6	716.1	721.9	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	11	7	8	9	sec
Test duration	198	194	194	195	sec
Peak heat release after ignition	57.9	65.0	83.4	68.7	kW/m ²
Average heat at 60 s	32.2	31.2	35.7	33.0	kW/m ²

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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 180 s	12.7	12.4	14.5	13.2	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.3	2.2	2.6	2.4	MJ/m ²
Average effective heat of combustion	12.5	9.6	11.4	11.1	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.4	2.3	2.3	2.3	g
Mass remaining	0.7	0.2	0.3	0.4	g
Mass percentage pyrolysed	71.7	92.3	87.9	84.0	%
Mass loss	0.2	0.3	0.2	0.2	kg/m ²
Average rate of mass loss	1.0	1.2	1.2	1.2	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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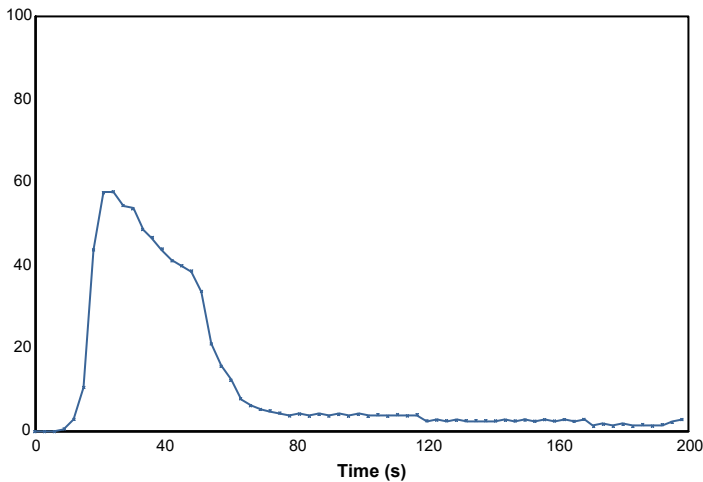
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

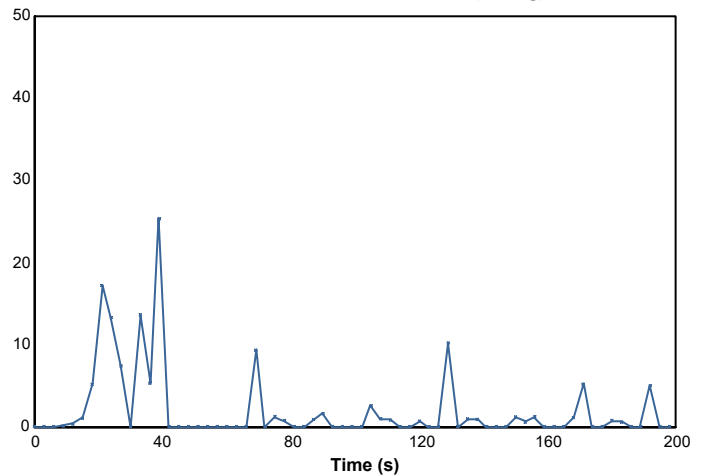
Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

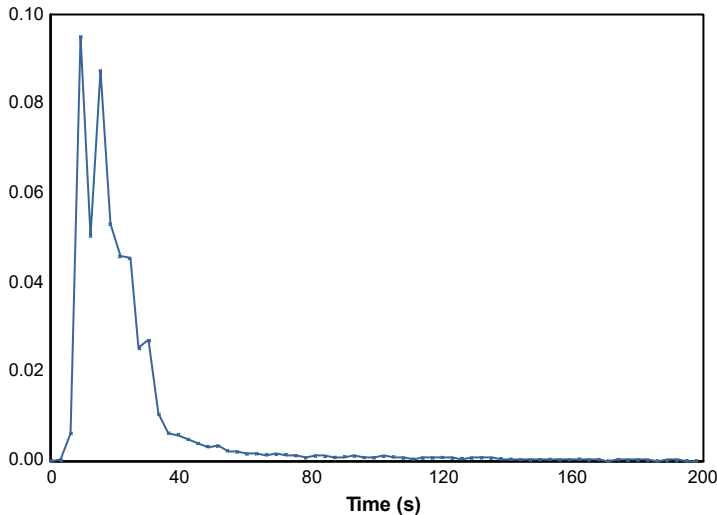
Heat release rate (kW/m²)



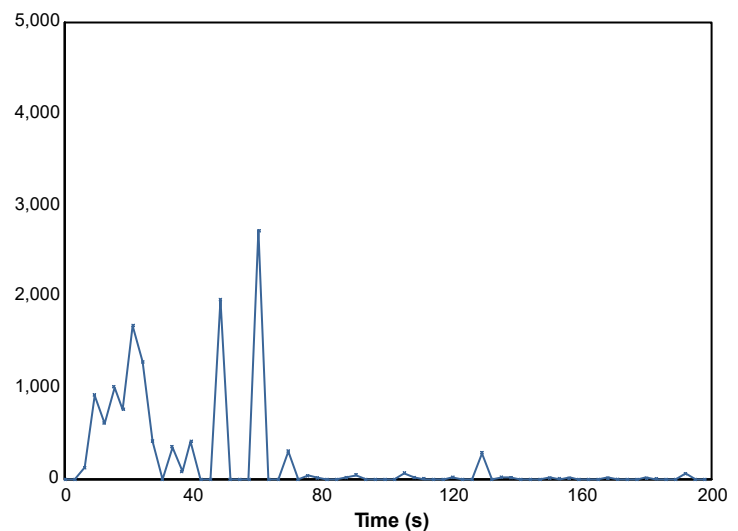
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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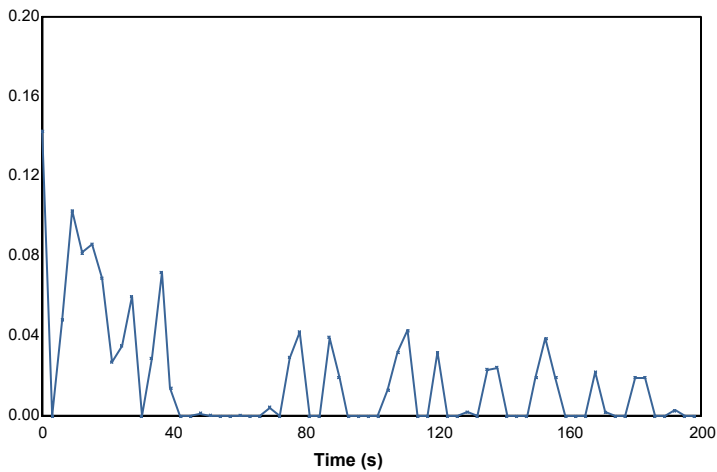
Phone (03) 9371 2400

TEST REPORT

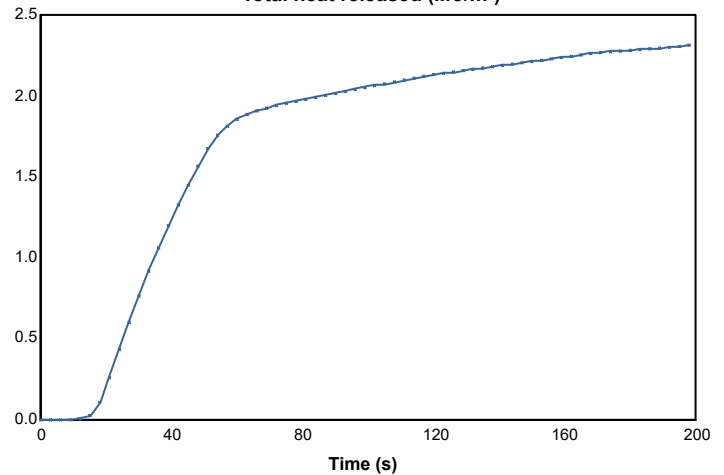
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

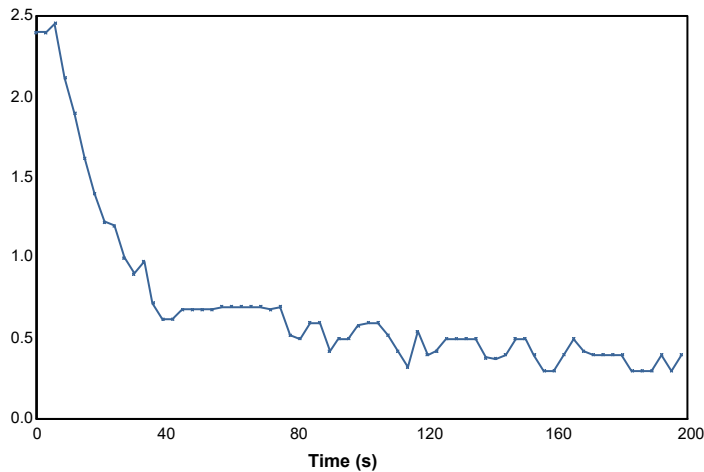
Mass loss rate (g/s)



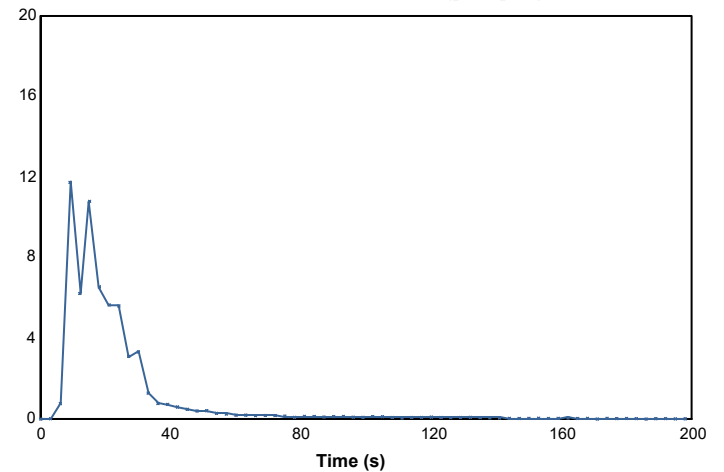
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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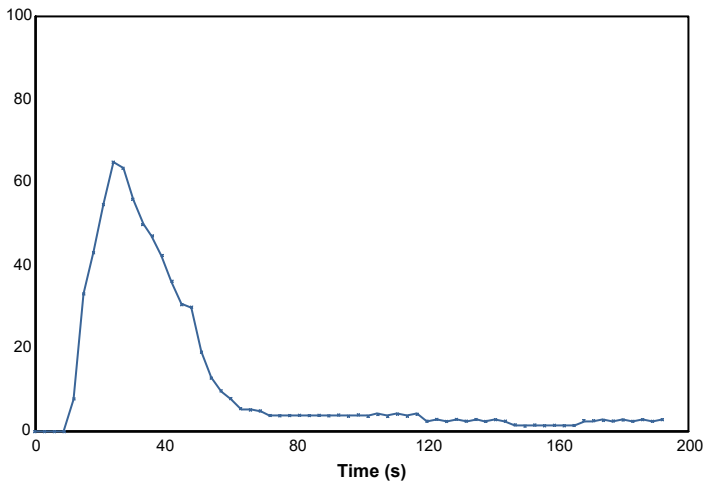
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

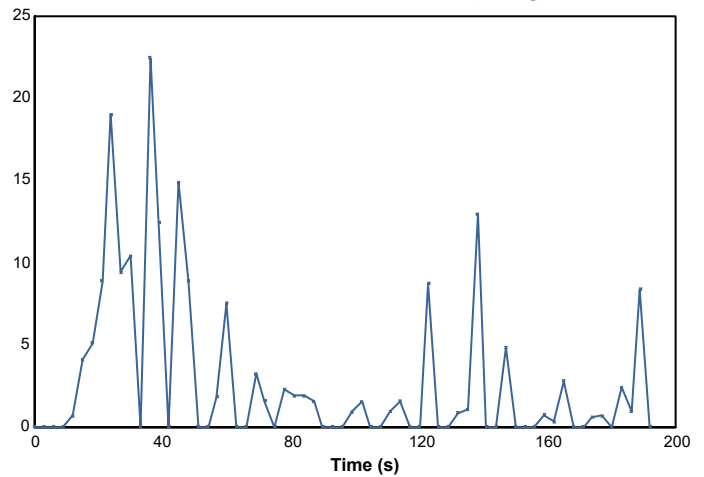
Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 2

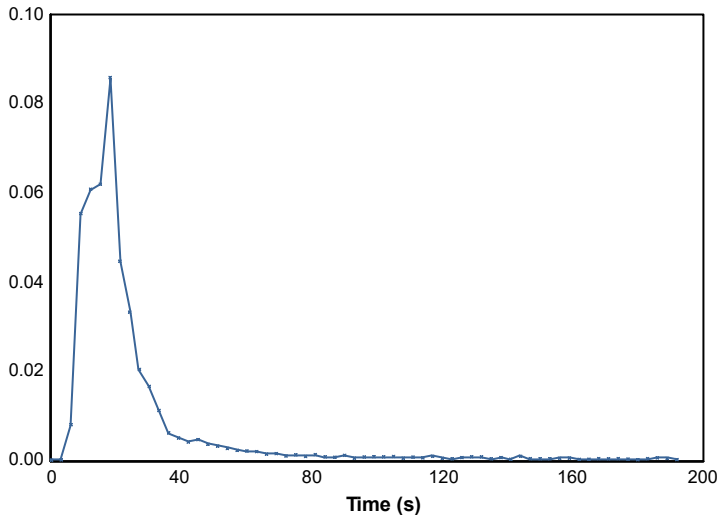
Heat release rate (kW/m²)



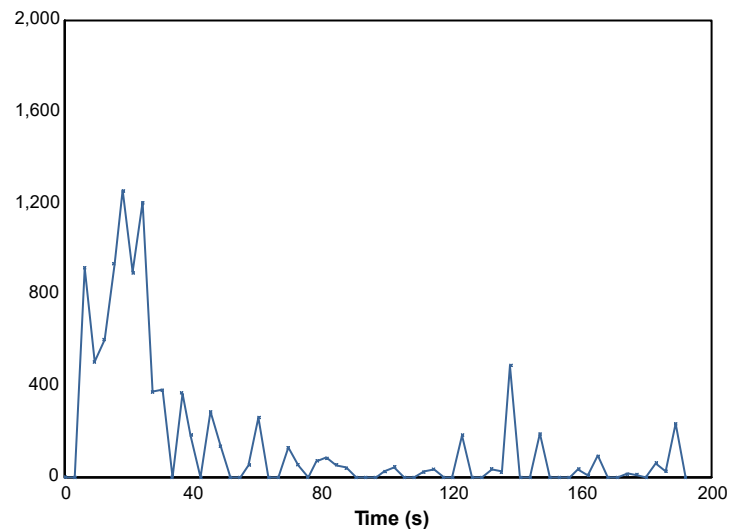
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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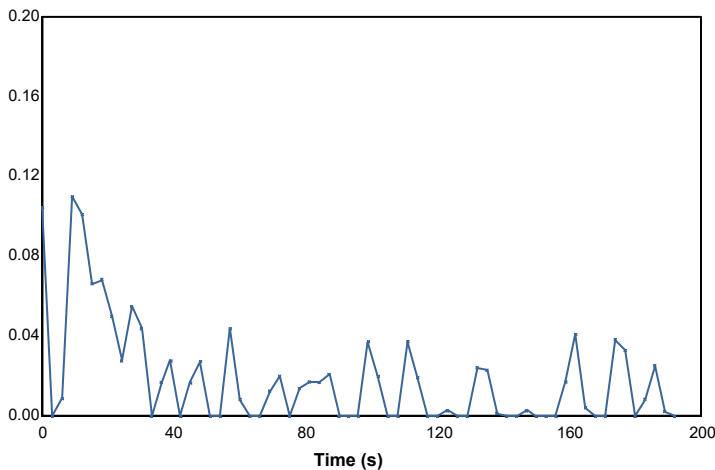
Phone (03) 9371 2400

TEST REPORT

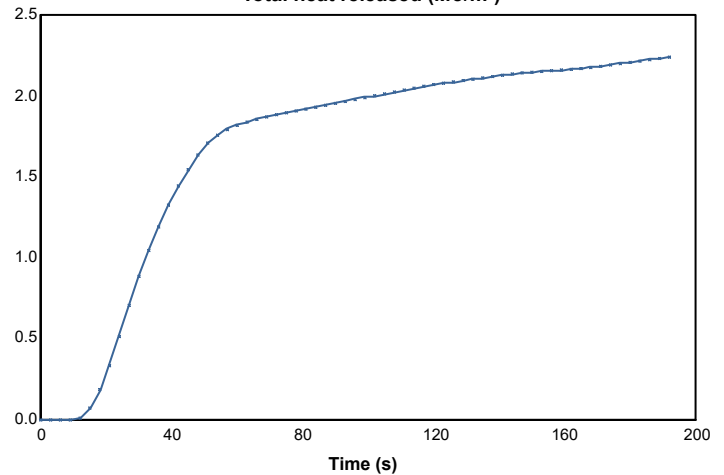
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

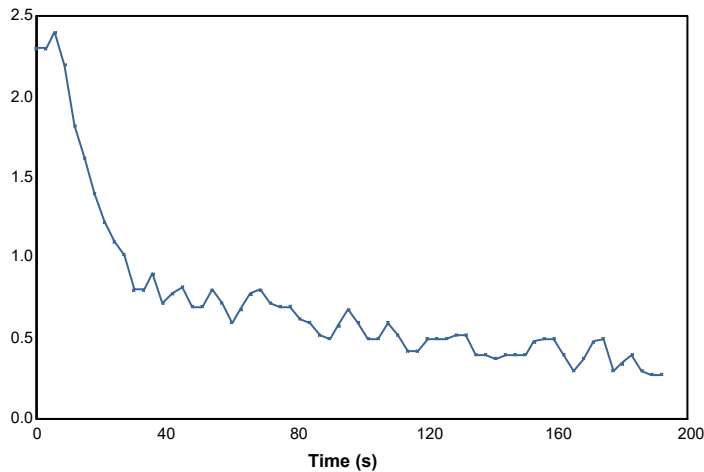
Mass loss rate (g/s)



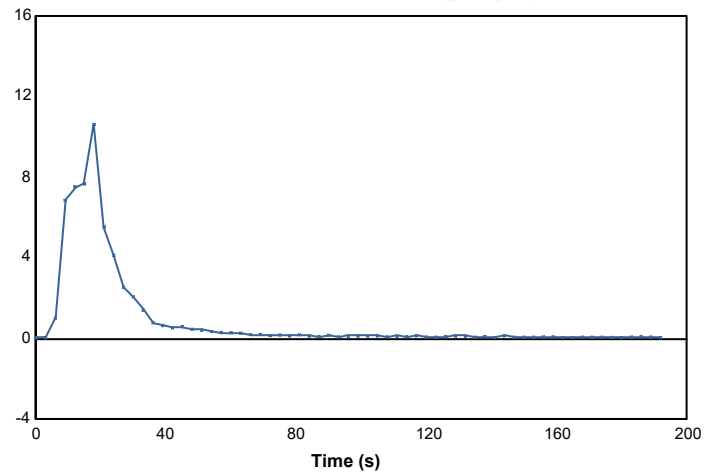
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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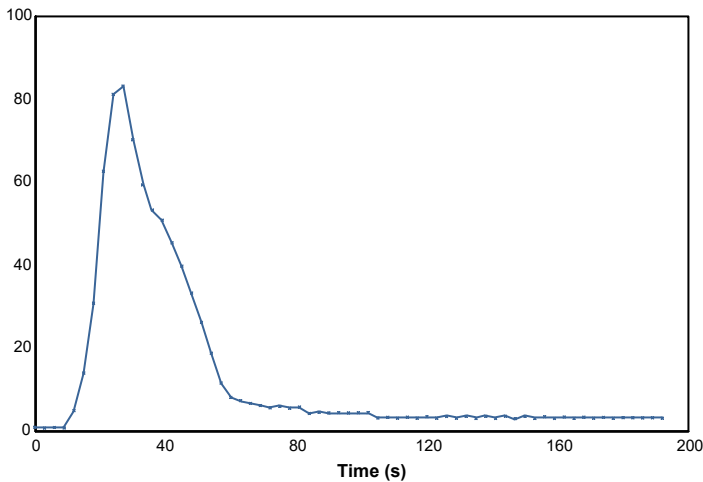
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

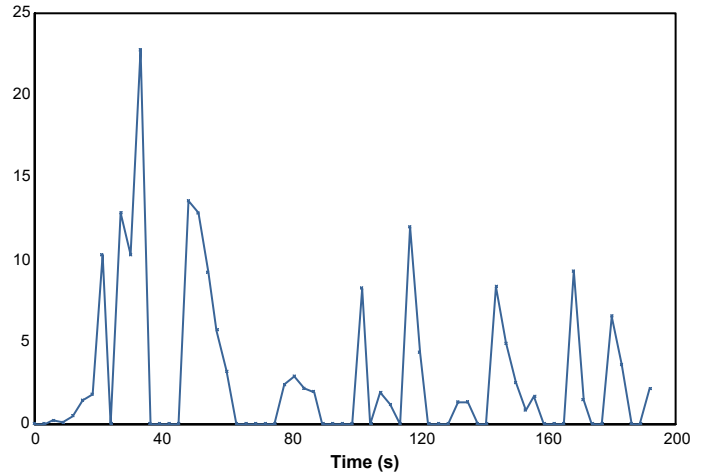
Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

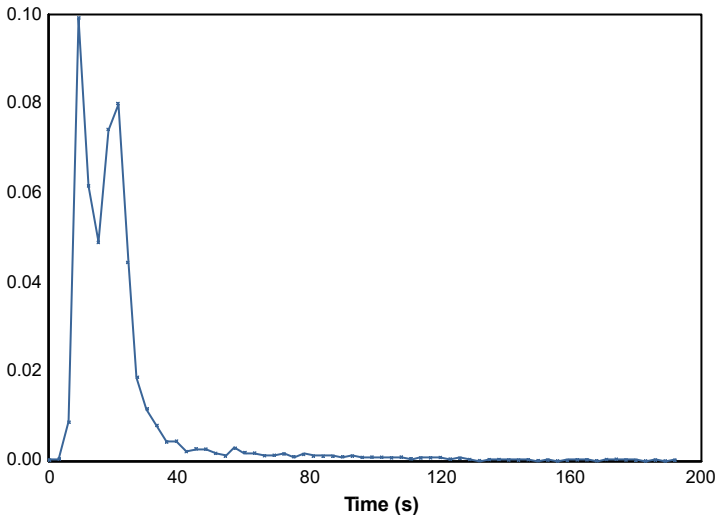
Heat release rate (kW/m²)



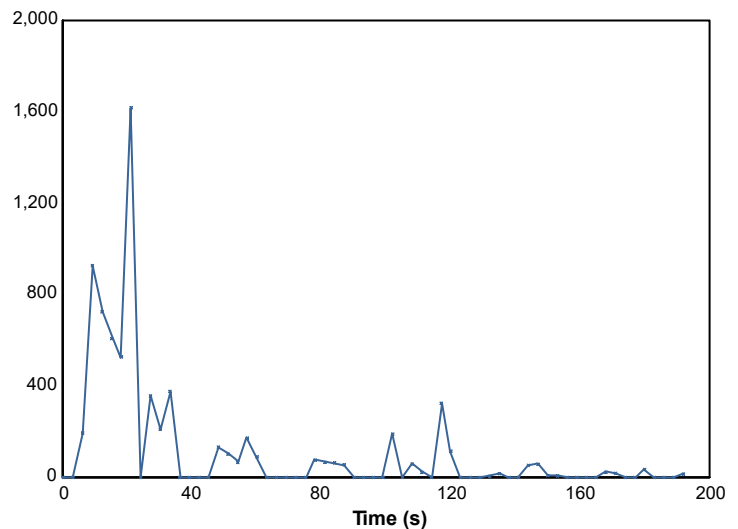
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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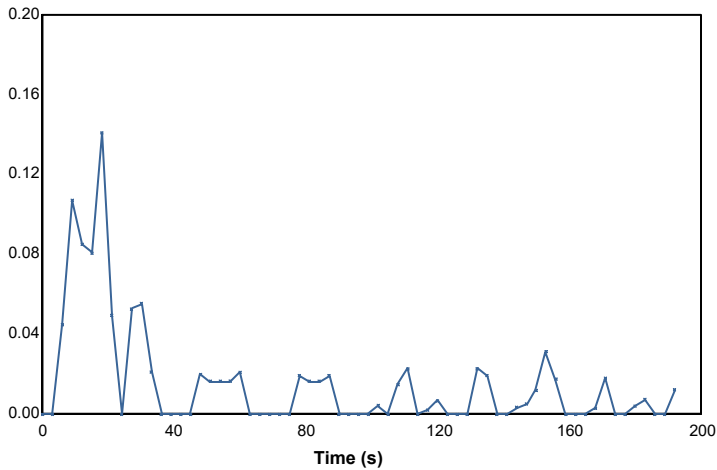
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TEST REPORT

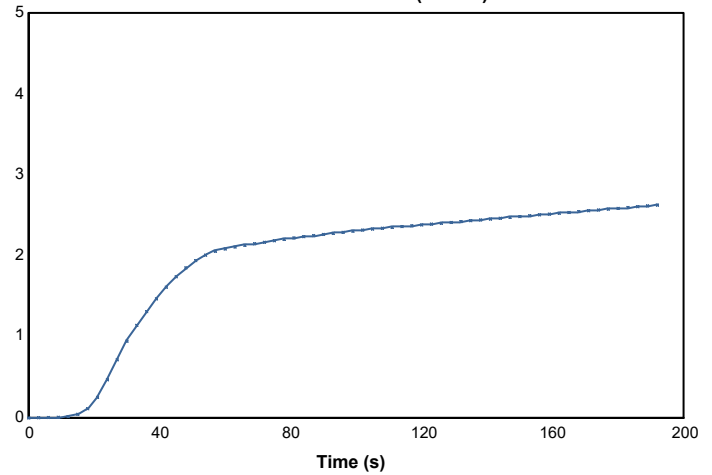
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002658
Issue Date : 28/05/2021
Print Date : 31/05/2021

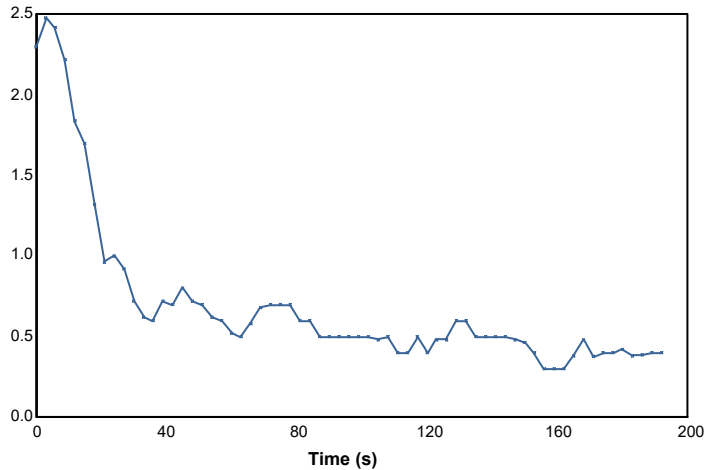
Mass loss rate (g/s)



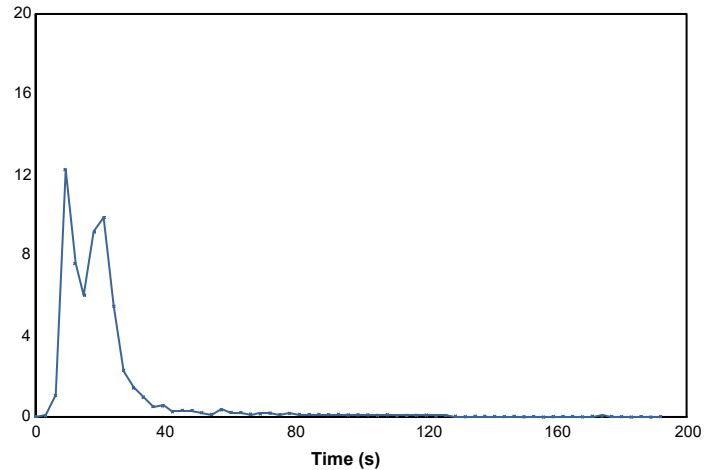
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "TOB 2 Blanc"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx: 230g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 731.1 m²/kg



Fiona McDonald
Testing Technologist

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "TOB 2 Blanc"
Flexible Vinyl Film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx: 230g/m2
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	14.4	10.8	13.2	13.7	13.8	15.8	13.6	kW/m ²
Average Specific extinction area	721.7	784.3	766.5	686.2	777.1	651.0	731.1	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	11	10	8	8	13	11	10	sec
Test duration	198	197	196	195	194	198	196	sec
Peak heat release after ignition	93.3	75.8	85.1	76.1	86.0	90.1	84.4	kW/m ²
Average heat at 60 s	37.1	31.2	33.6	34.5	35.4	40.0	35.3	kW/m ²
Average heat at 180 s	14.8	11.1	13.6	14.0	13.8	16.2	13.9	kW/m ²

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.7	2.0	2.5	2.5	2.5	2.9	2.5	2.5	MJ/m ²
Ave. effective heat of combustion	14.1	8.6	10.0	9.3	13.1	13.2	11.4	11.4	MJ/kg
Initial thickness	0.17	0.17	0.17	0.17	0.17	0.17	0.2	0.2	mm
Initial mass	2.6	2.4	2.1	2.6	2.3	2.4	2.4	2.4	g
Mass remaining	0.6	0.4	0.0	0.2	0.5	0.4	0.3	0.3	g
Mass percentage pyrolysed	77.6	84.1	100.0	92.3	79.1	83.3	86.1	86.1	%
Mass loss	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.3	kg/m ²
Average rate of mass loss	1.1	1.2	1.3	1.5	1.1	1.2	1.2	1.2	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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Fiona McDonald

APPROVED SIGNATORY



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A.B.N 43 006 014 106

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P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

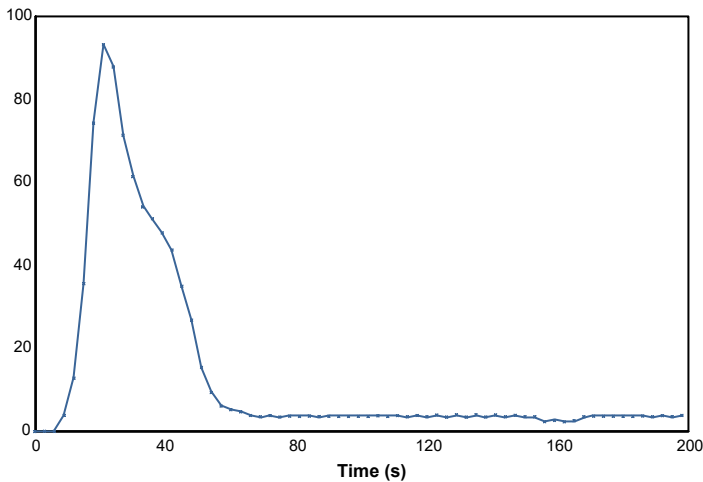
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

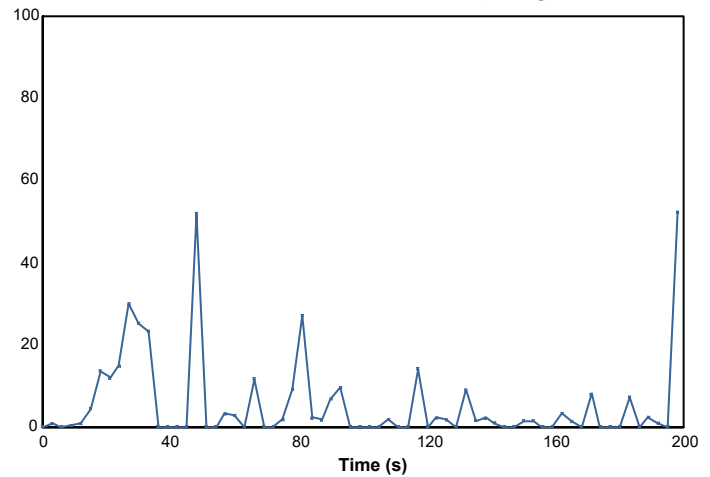
Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

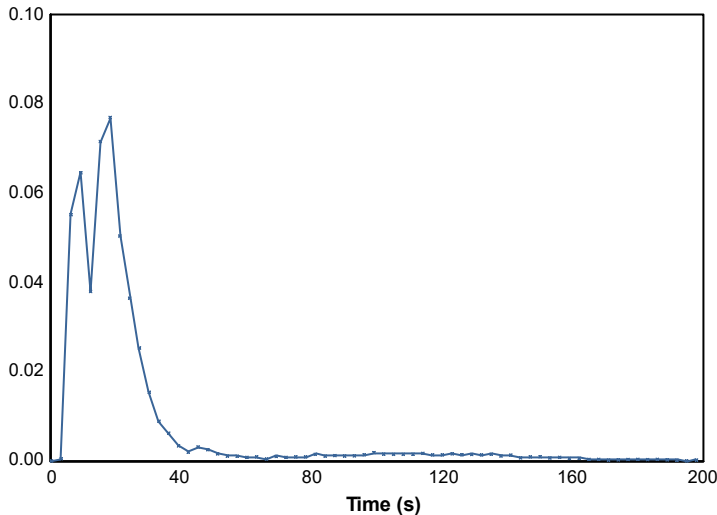
Heat release rate (kW/m²)



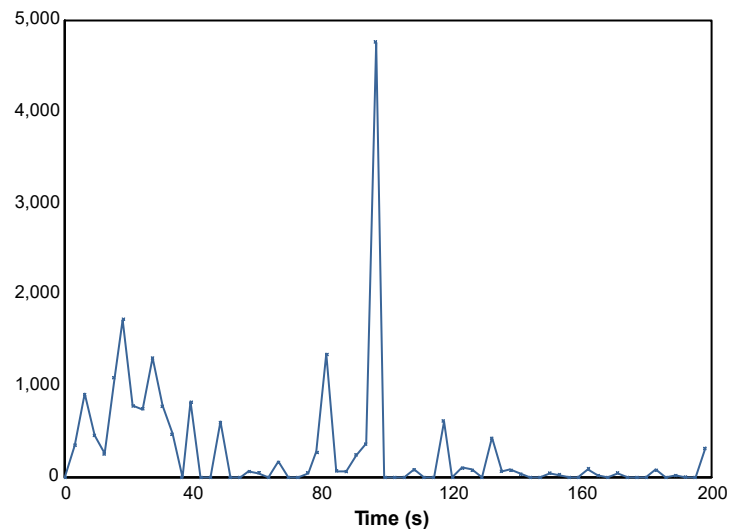
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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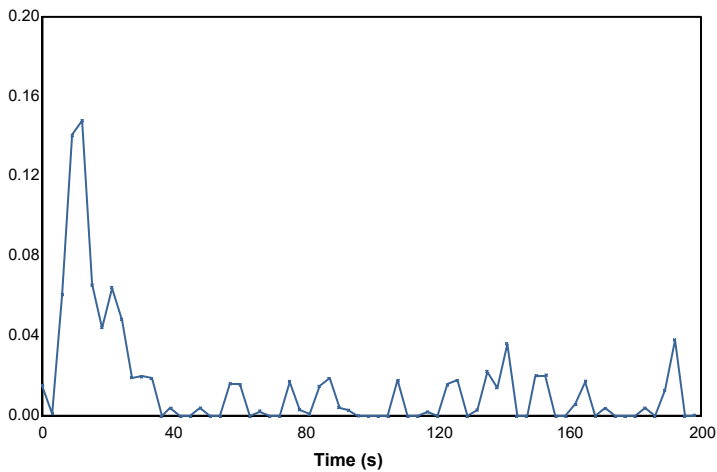
Phone (03) 9371 2400

TEST REPORT

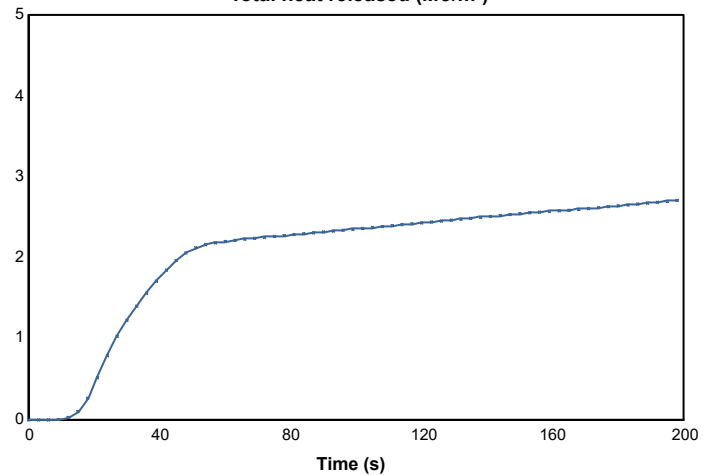
Client : NEWMAT S.A.S.
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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
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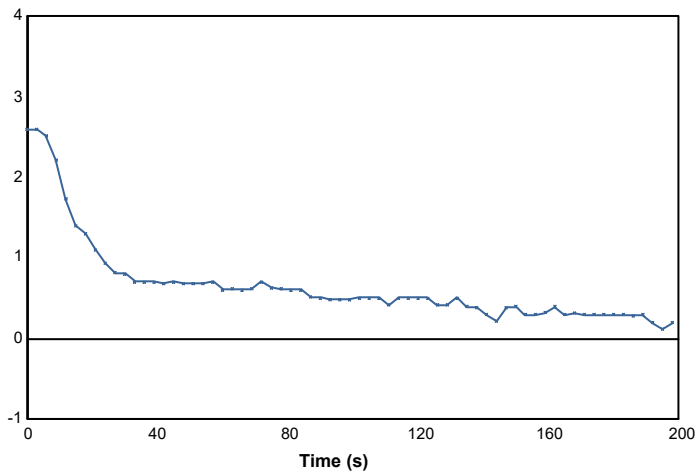
Mass loss rate (g/s)



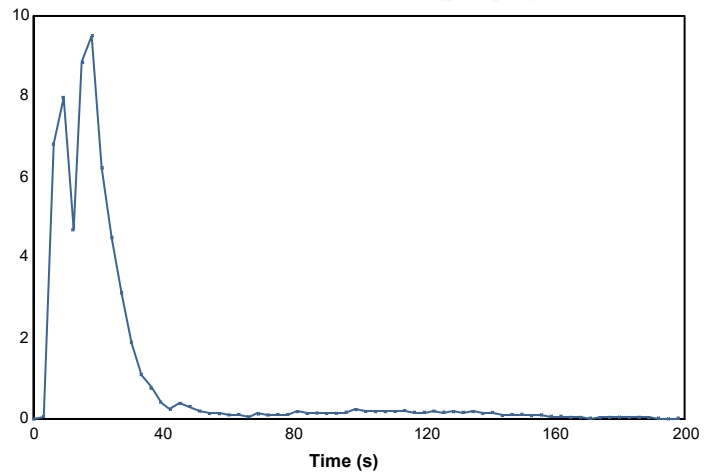
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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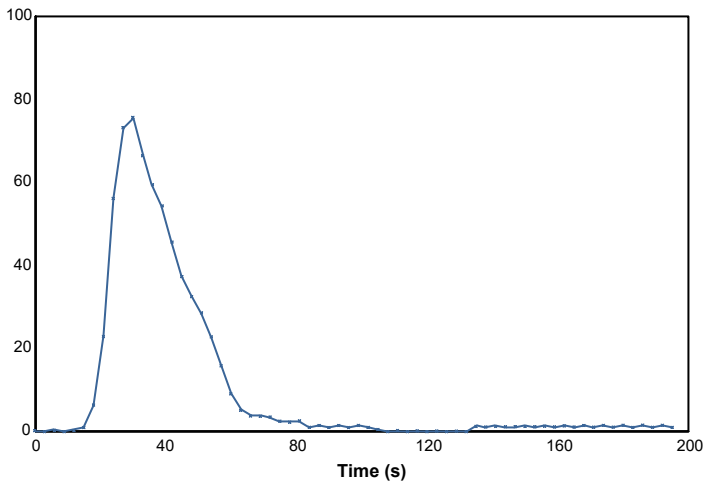
TEST REPORT

Client : NEWMAT S.A.S.
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FRANCE

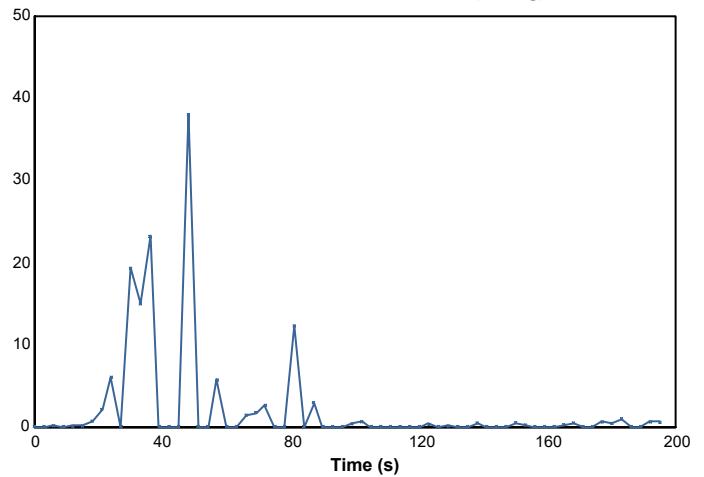
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

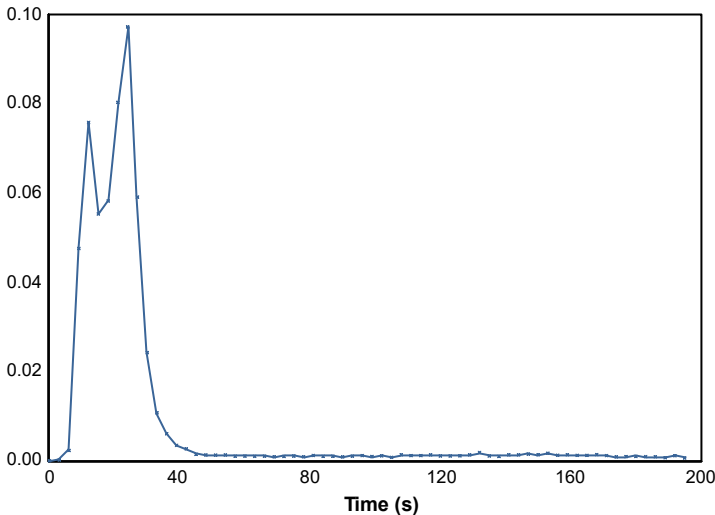
Heat release rate (kW/m²)



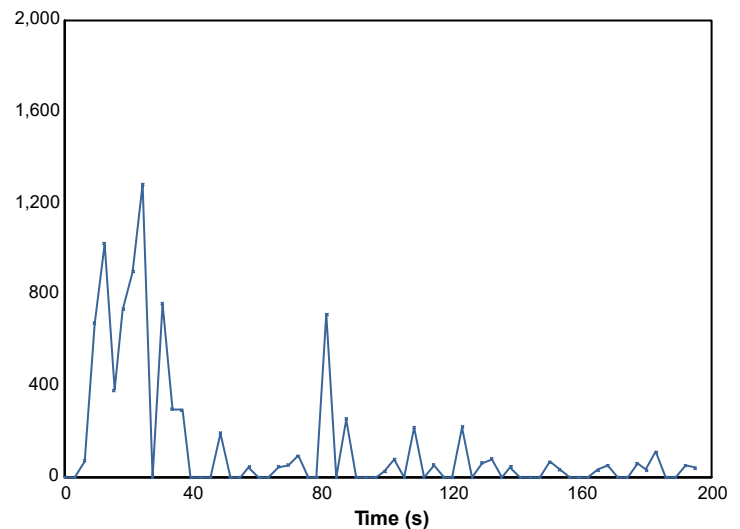
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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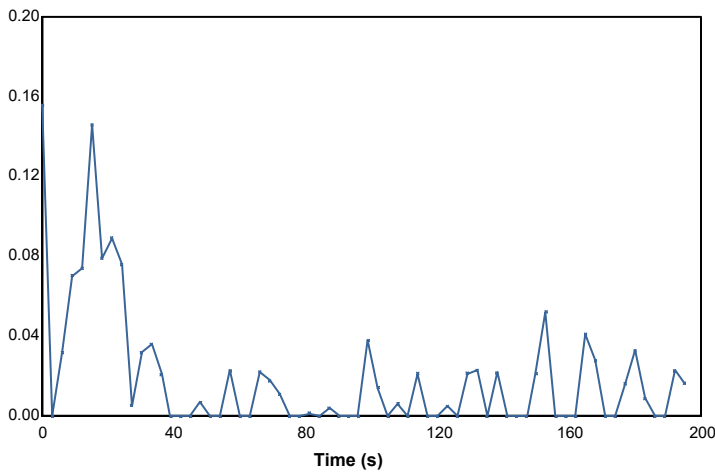
Phone (03) 9371 2400

TEST REPORT

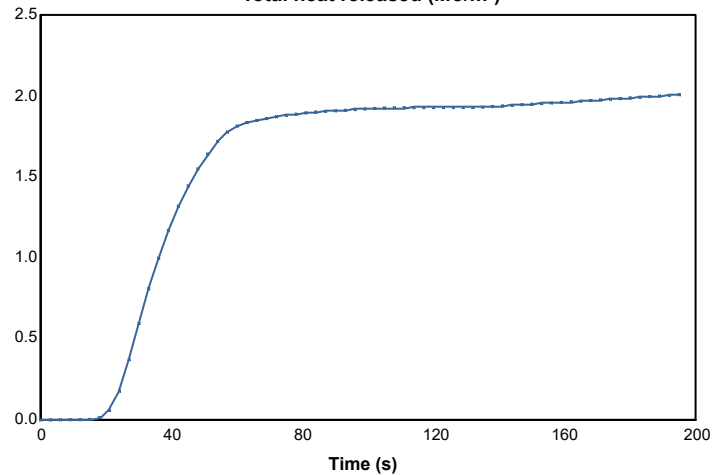
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

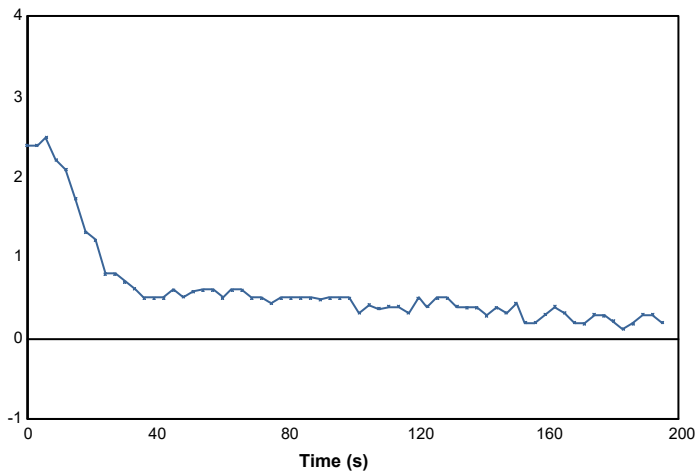
Mass loss rate (g/s)



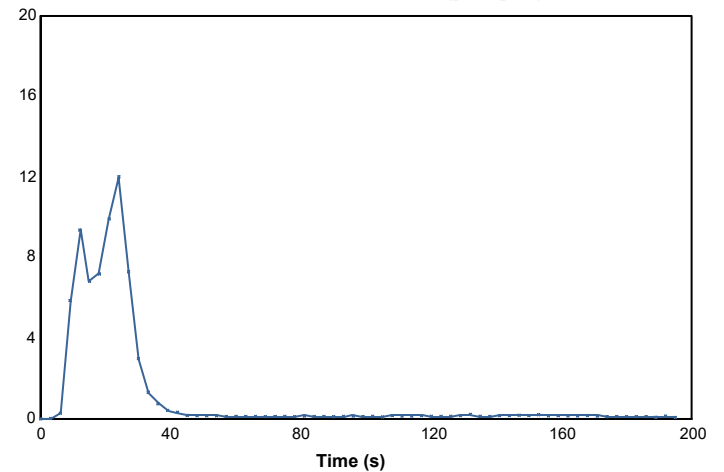
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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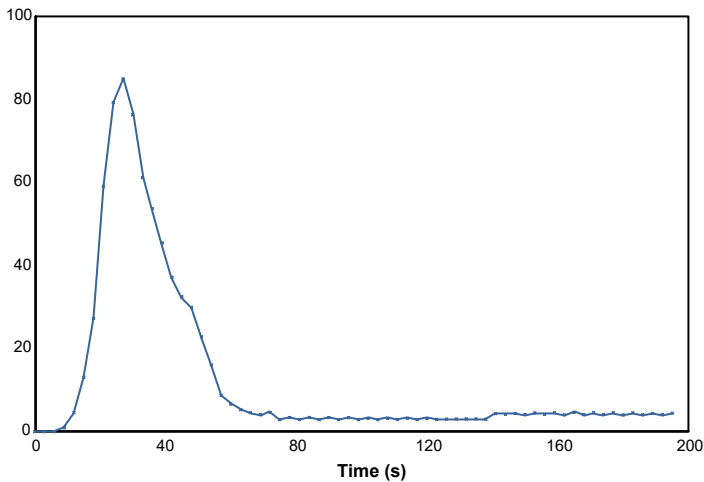
TEST REPORT

Client : NEWMAT S.A.S.
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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

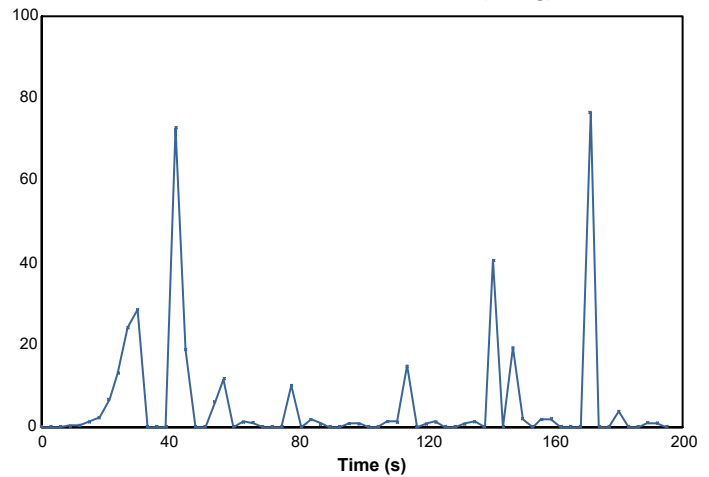
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

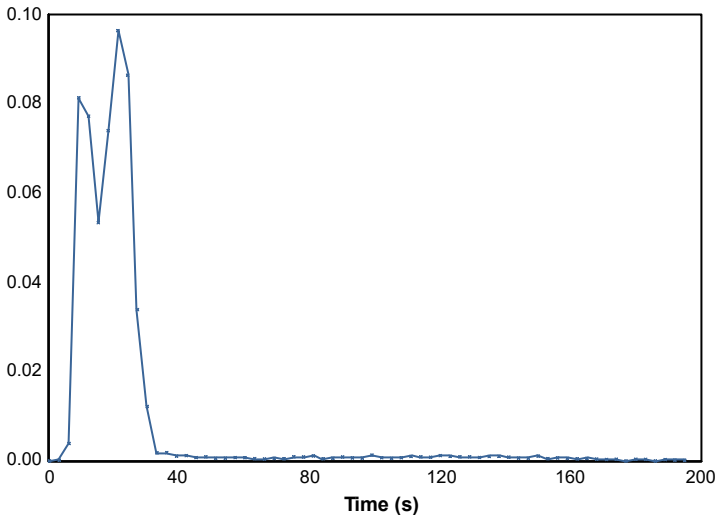
Heat release rate (kW/m²)



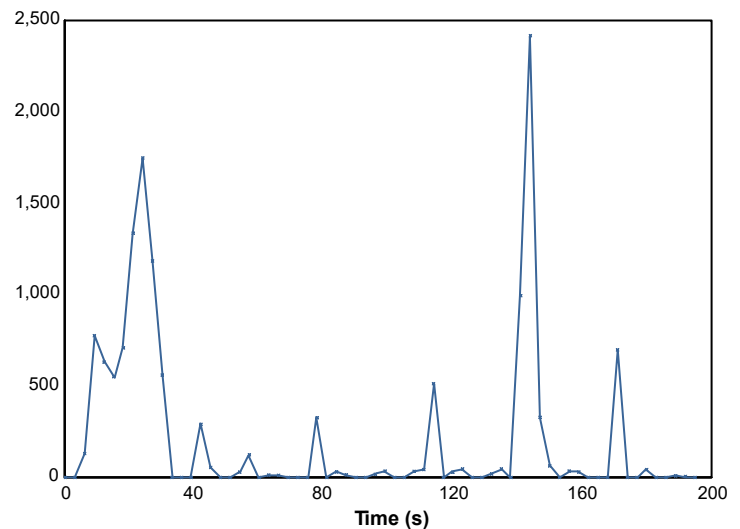
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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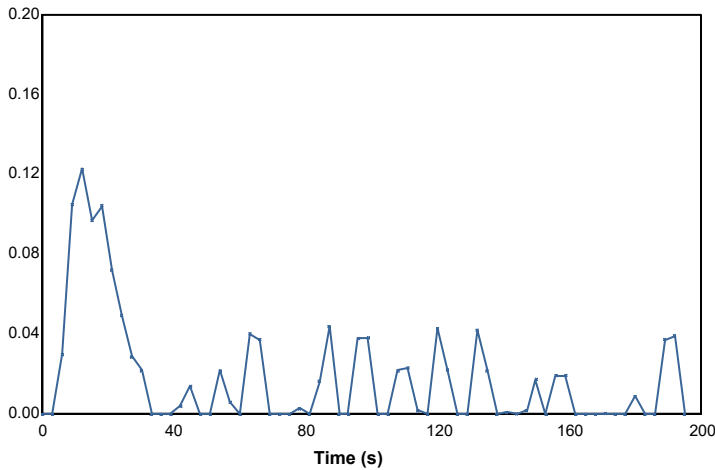
Phone (03) 9371 2400

TEST REPORT

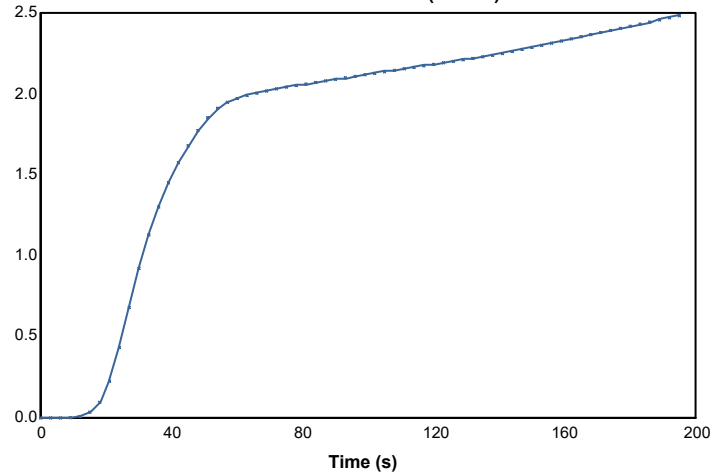
Client : NEWMAT S.A.S.
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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
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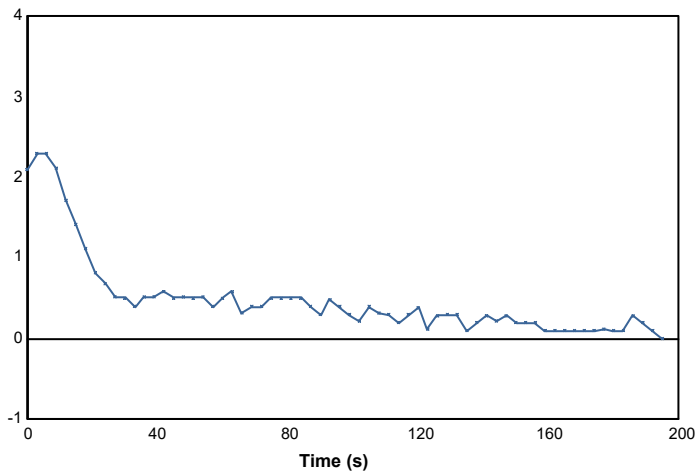
Mass loss rate (g/s)



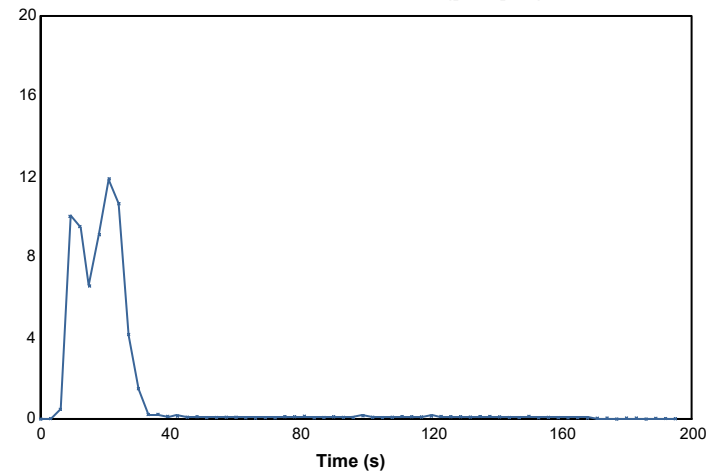
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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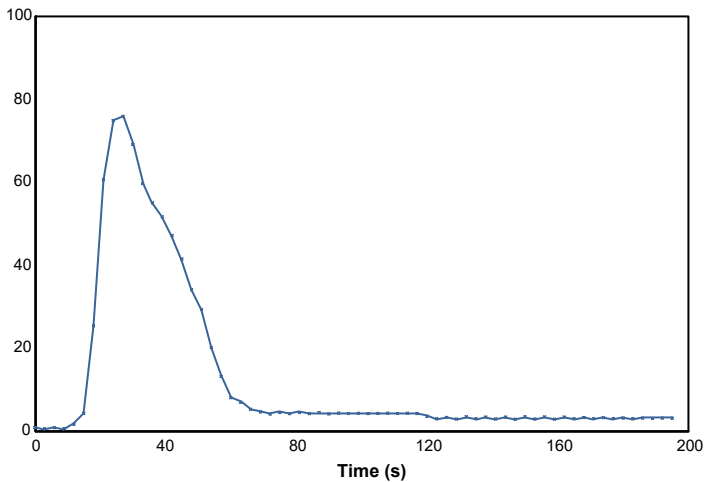
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

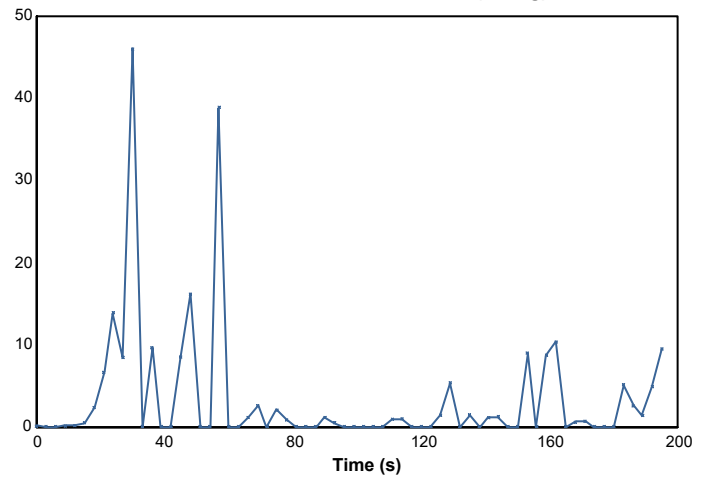
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 4

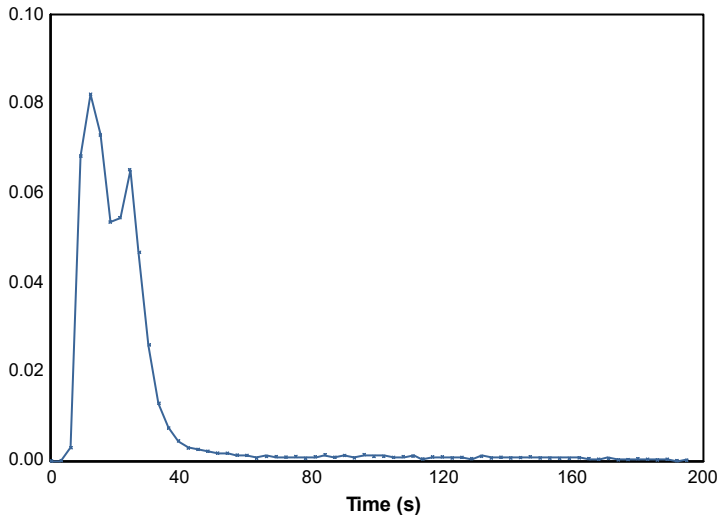
Heat release rate (kW/m²)



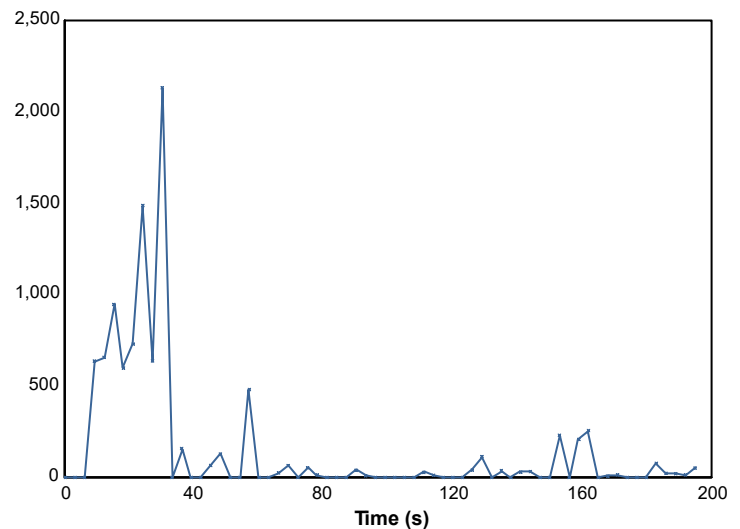
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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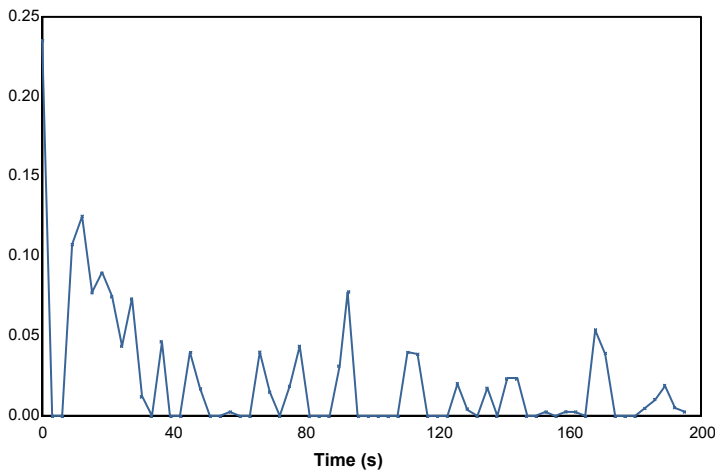
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TEST REPORT

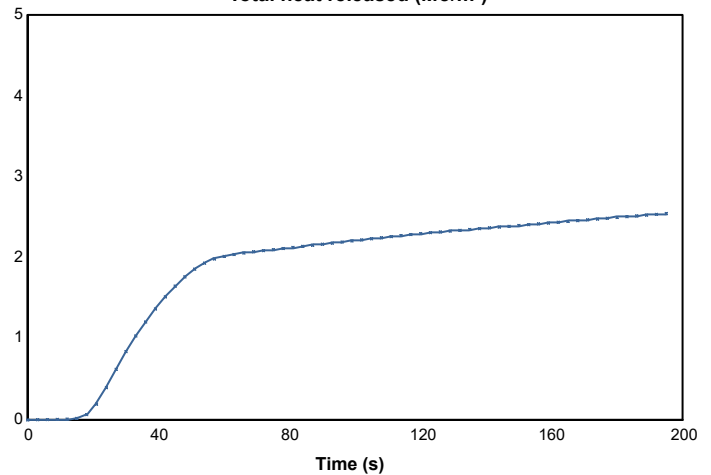
Client : NEWMAT S.A.S.
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Test Number : 21-002661
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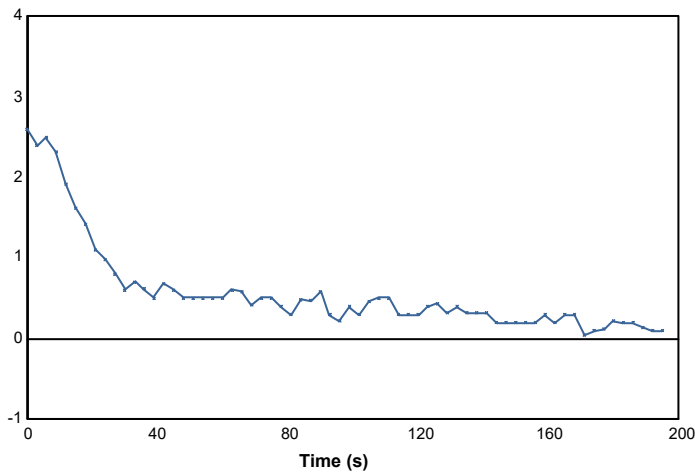
Mass loss rate (g/s)



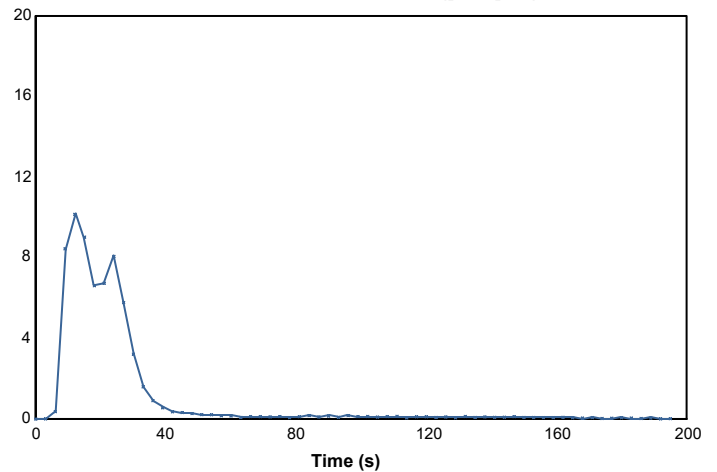
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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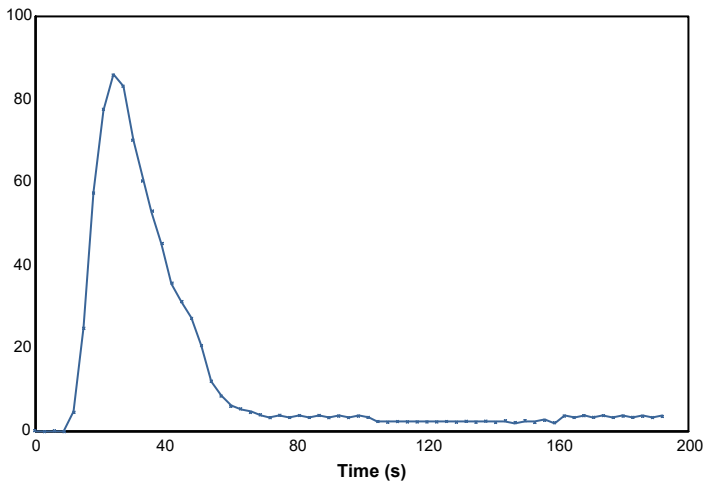
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
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FRANCE

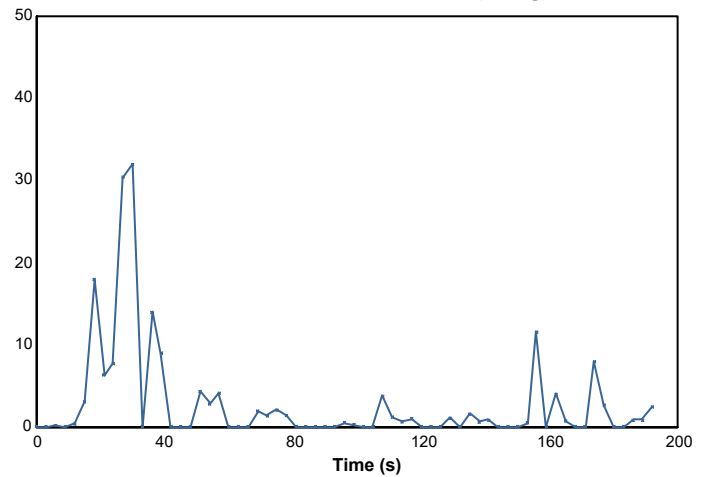
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 5

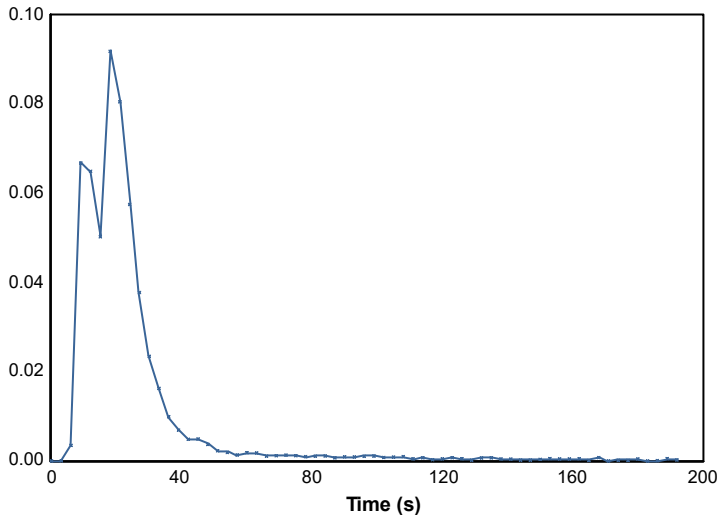
Heat release rate (kW/m²)



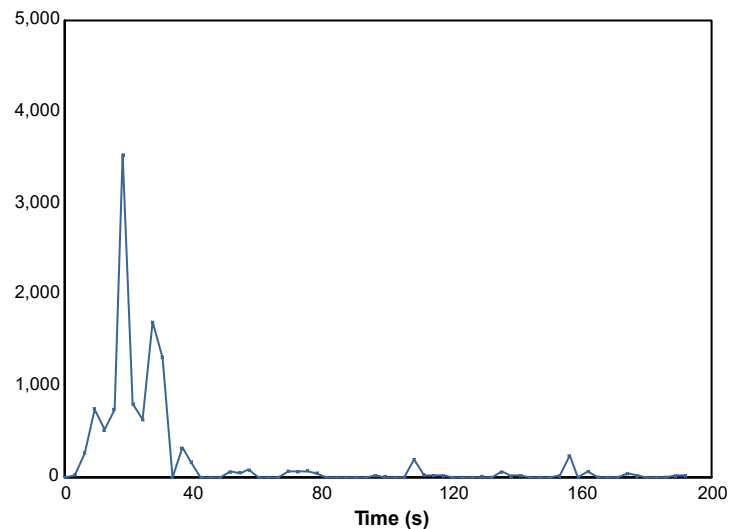
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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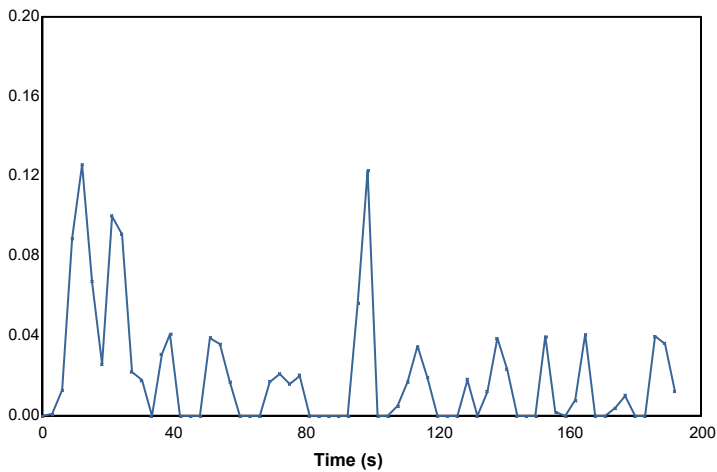
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TEST REPORT

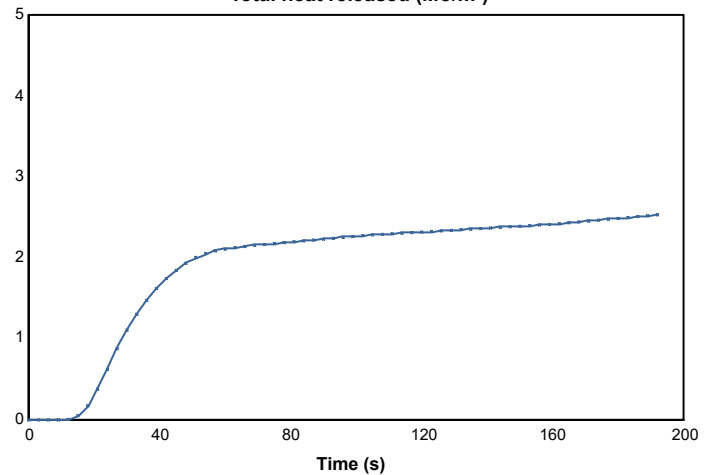
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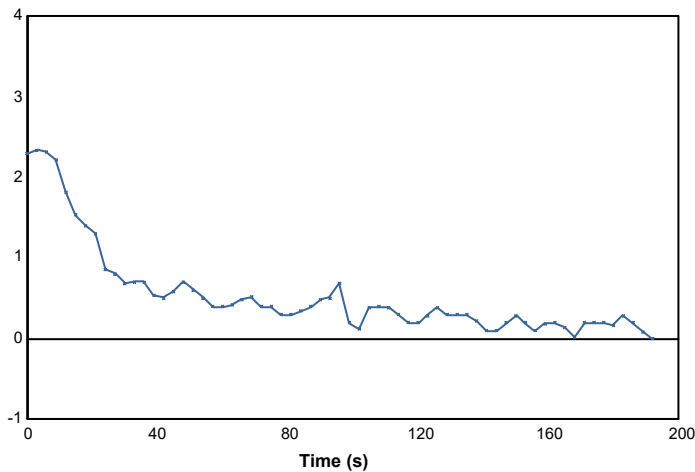
Mass loss rate (g/s)



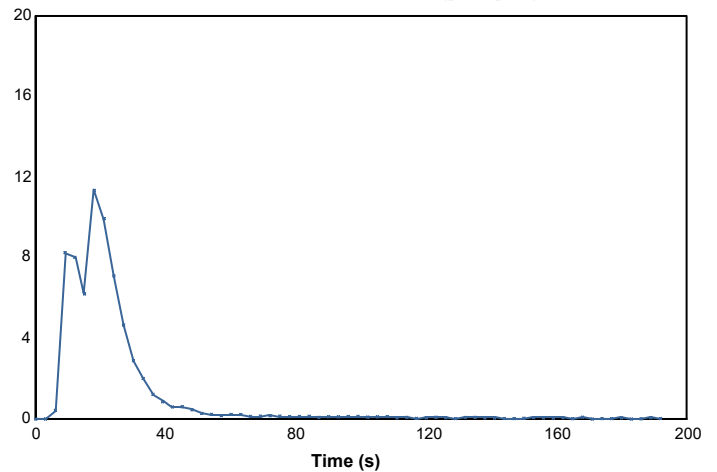
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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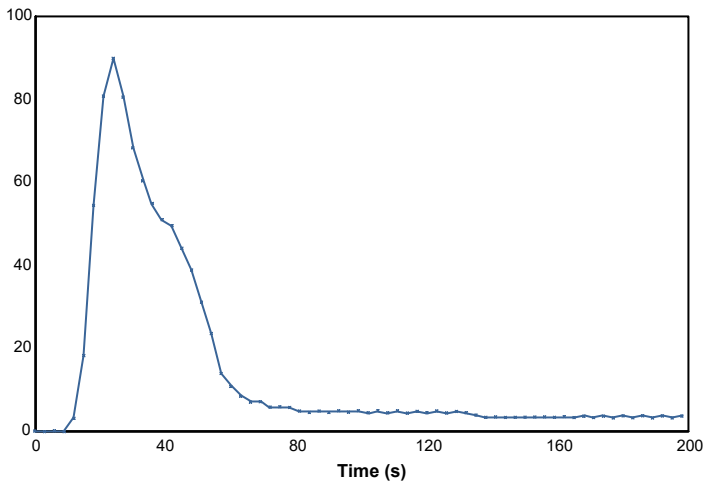
TEST REPORT

Client : NEWMAT S.A.S.
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FRANCE

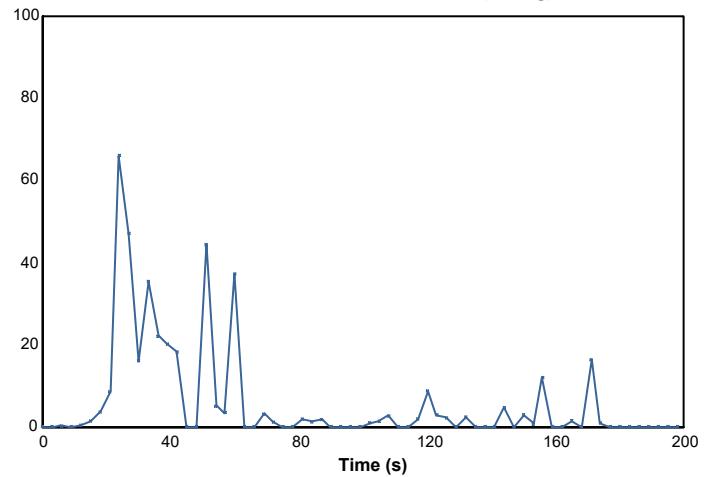
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 6

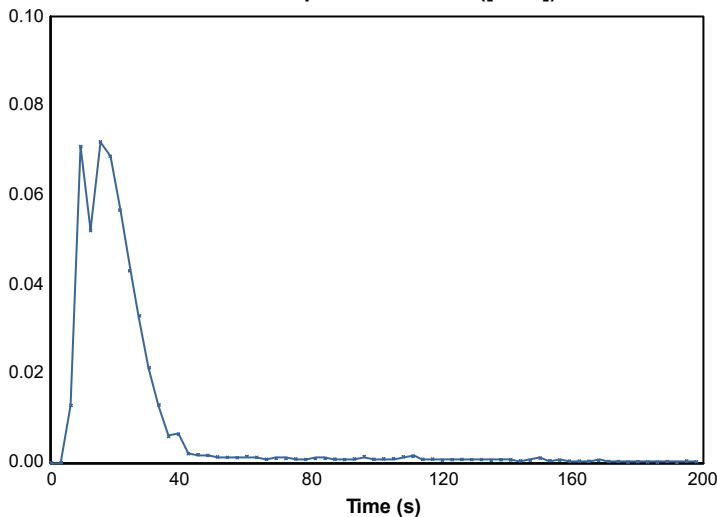
Heat release rate (kW/m²)



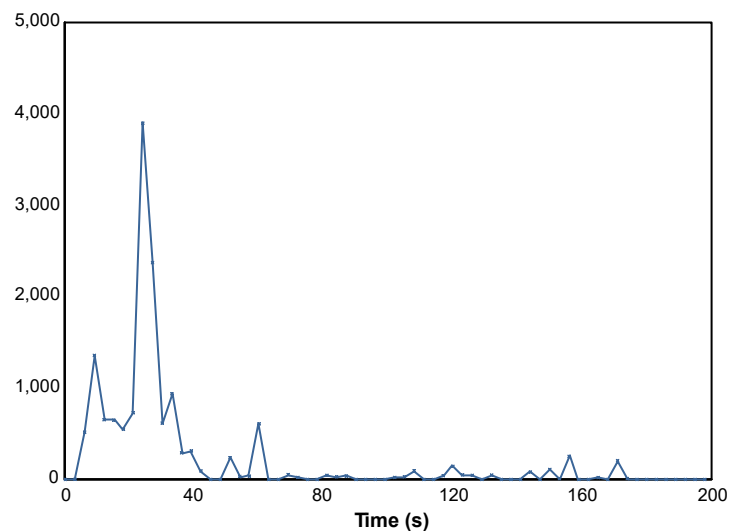
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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Fiona McDonald

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

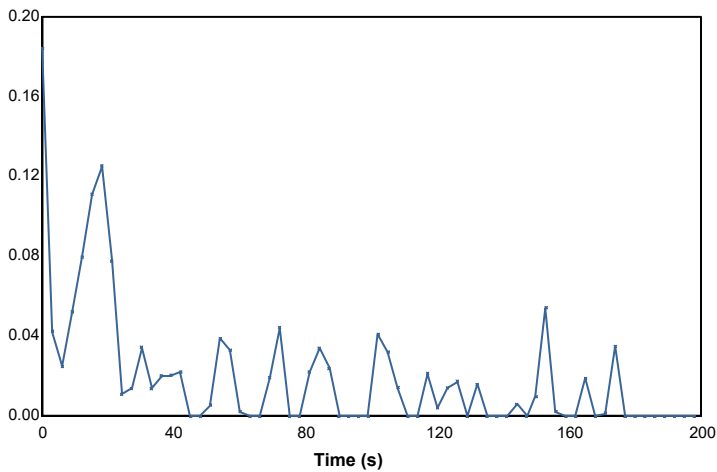
Phone (03) 9371 2400

TEST REPORT

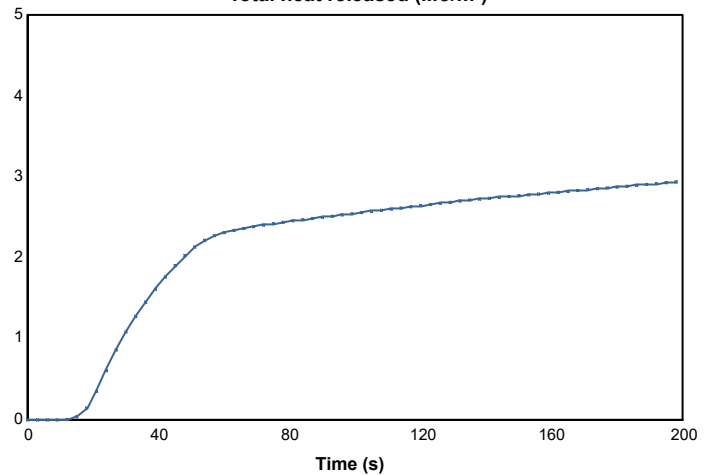
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002661
Issue Date : 28/05/2021
Print Date : 28/05/2021

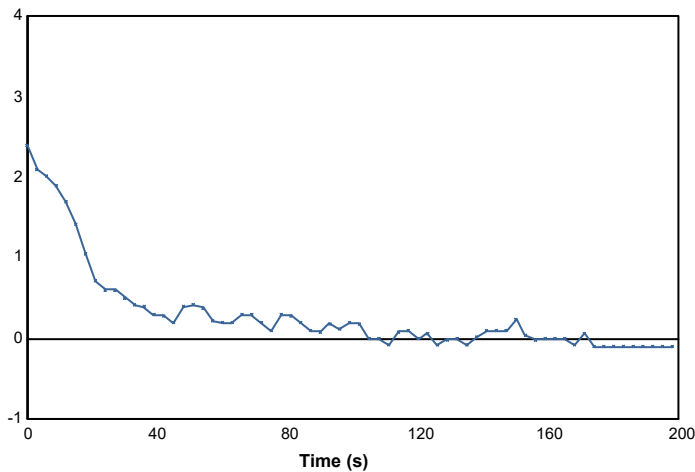
Mass loss rate (g/s)



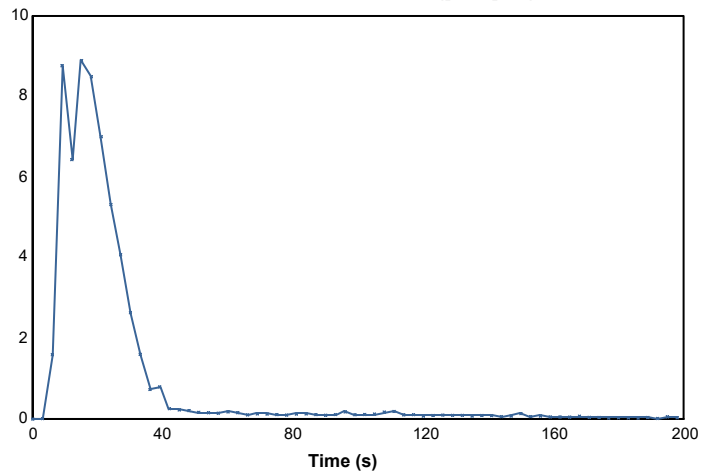
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "TBC3"
Flexible vinly film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 740.5 m²/kg



Chris Campbell
Client Relations Manager

51904

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "TBC3"
Flexible vinly film
Colour : White
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 18-05-2020
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	10.5	11.7	21.9	15.8	8.1	12.9	13.5	kW/m ²
Average Specific extinction area	762.2	693.1	849.0	820.5	586.2	732.1	740.5	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	5	2	3	1	2	2	3	sec
Test duration	218	224	186	221	183	222	209	sec
Peak heat release after ignition	86.5	118.0	149.4	157.0	77.2	136.7	120.8	kW/m ²
Average heat at 60 s	36.4	36.3	46.7	44.3	21.5	44.4	38.3	kW/m ²
Average heat at 180 s	12.5	13.9	22.1	18.4	8.1	15.7	15.1	kW/m ²

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TEST REPORT

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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.3	2.6	4.0	3.5	1.5	2.9	2.8	2.8	MJ/m ²
Ave. effective heat of combustion	7.8	8.7	16.1	14.5	5.1	10.4	10.4	10.4	MJ/kg
Initial thickness	0.17	0.17	0.17	0.17	0.17	0.17	0.2	0.2	mm
Initial mass	2.2	2.4	2.4	2.3	2.4	2.3	2.3	2.3	g
Mass remaining	0.0	0.0	0.4	0.2	0.2	0.0	0.1	0.1	g
Mass percentage pyrolysed	100.0	100.0	84.1	91.8	91.8	100.0	94.6	94.6	%
Mass loss	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.3	1.3	1.4	1.1	1.6	1.2	1.3	1.3	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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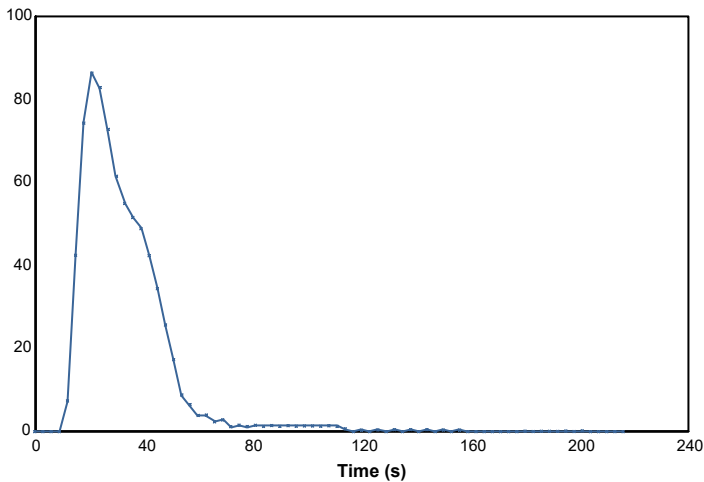
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

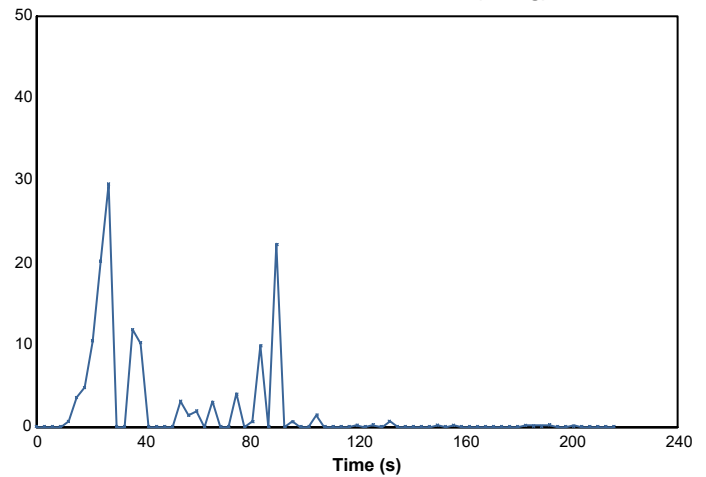
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

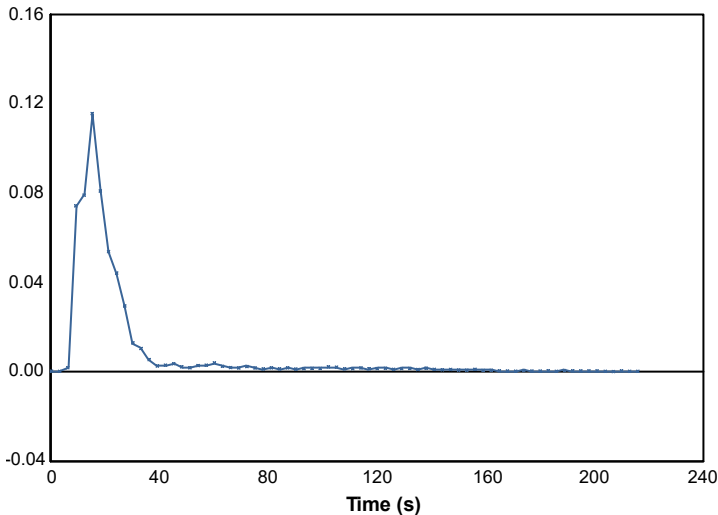
Heat release rate (kW/m²)



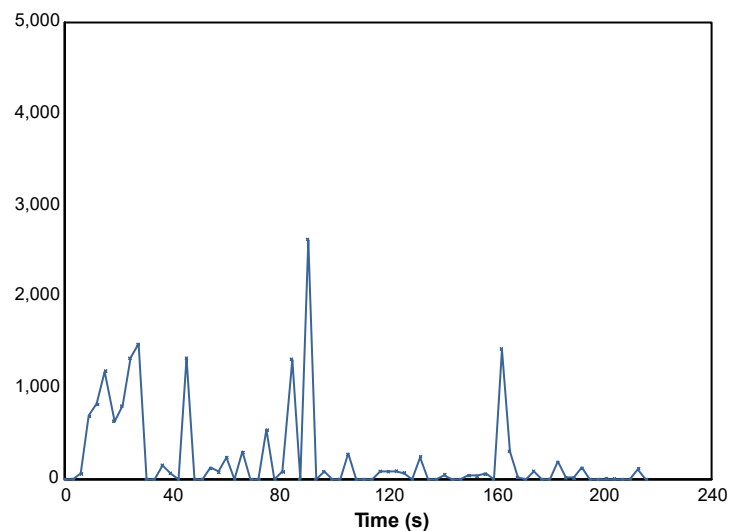
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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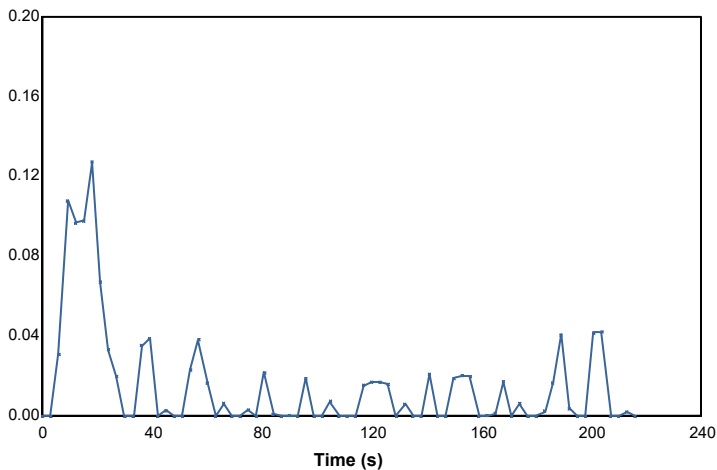
Phone (03) 9371 2400

TEST REPORT

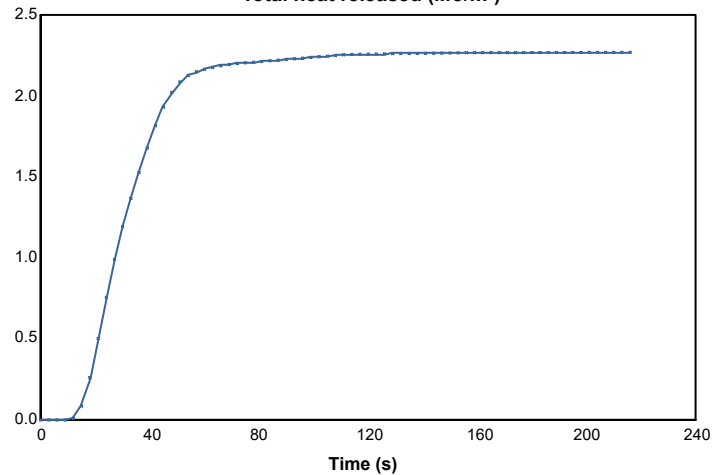
Client : NEWMAT S.A.S.
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Issue Date : 28/05/2021
Print Date : 28/05/2021

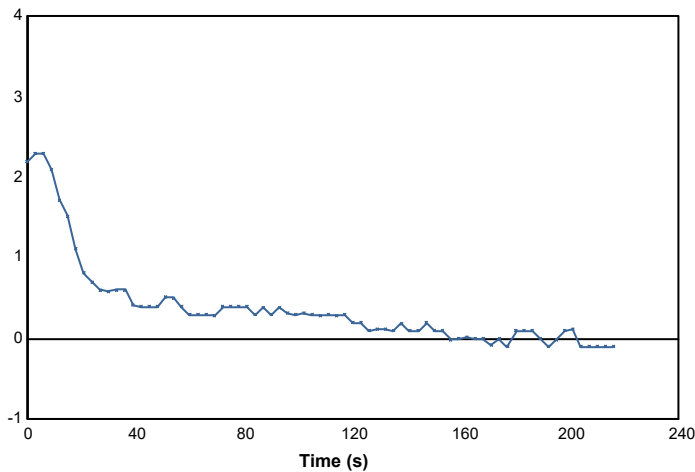
Mass loss rate (g/s)



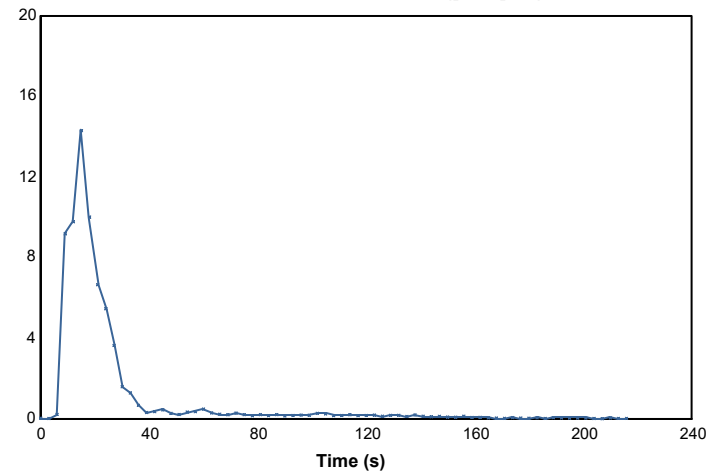
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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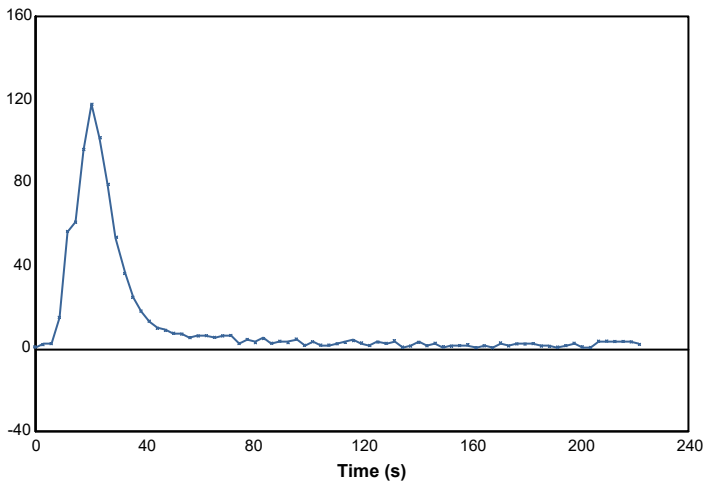
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

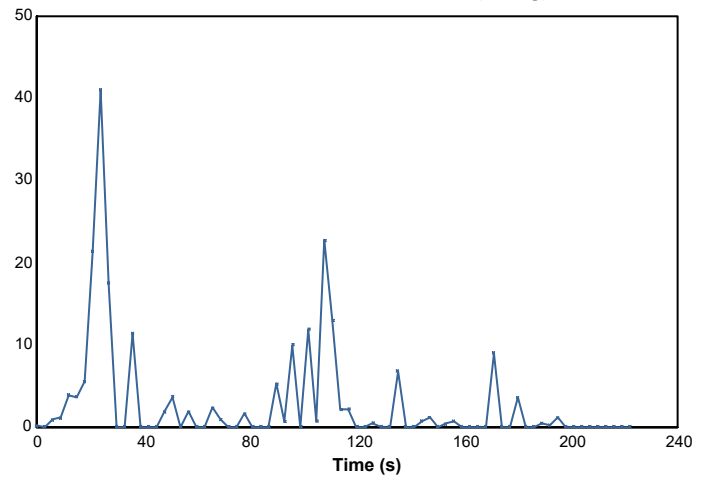
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

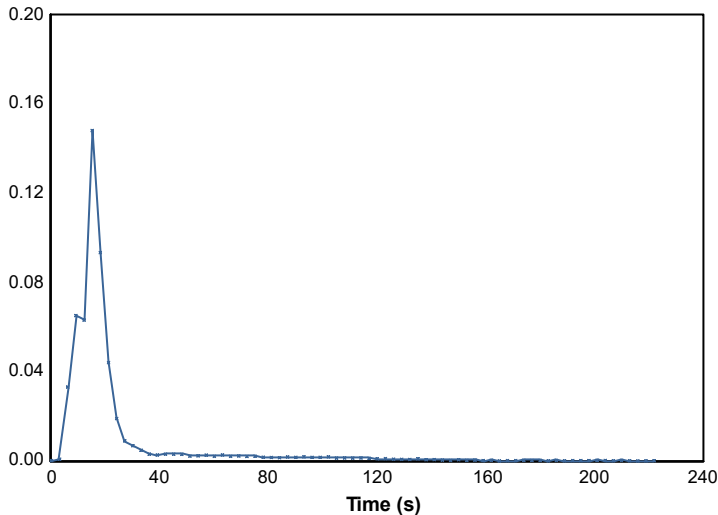
Heat release rate (kW/m²)



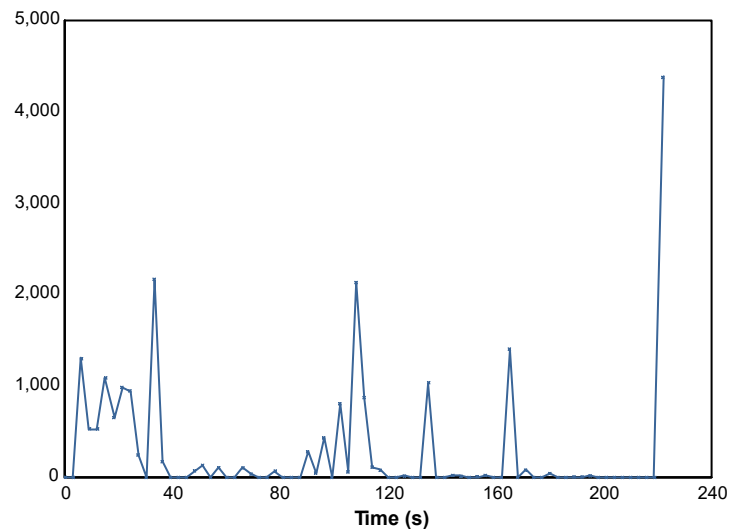
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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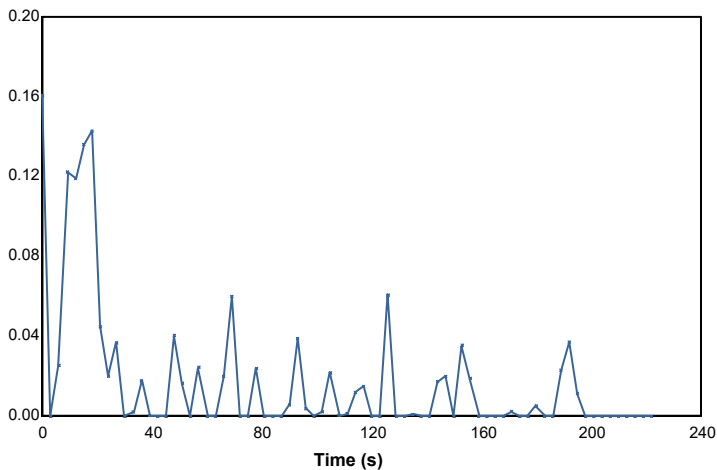
Phone (03) 9371 2400

TEST REPORT

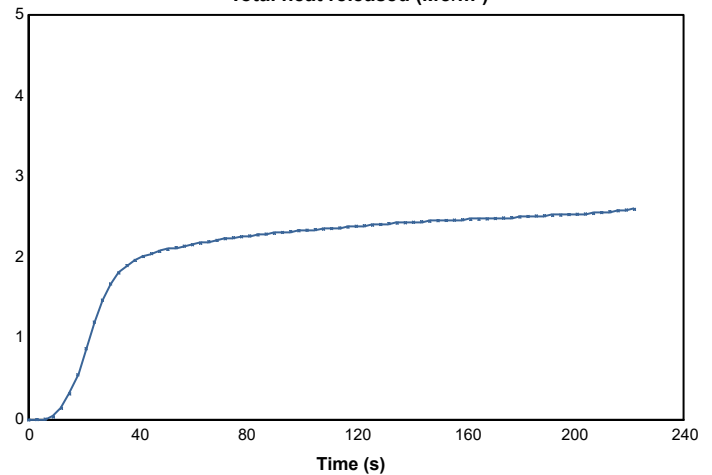
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002629
Issue Date : 28/05/2021
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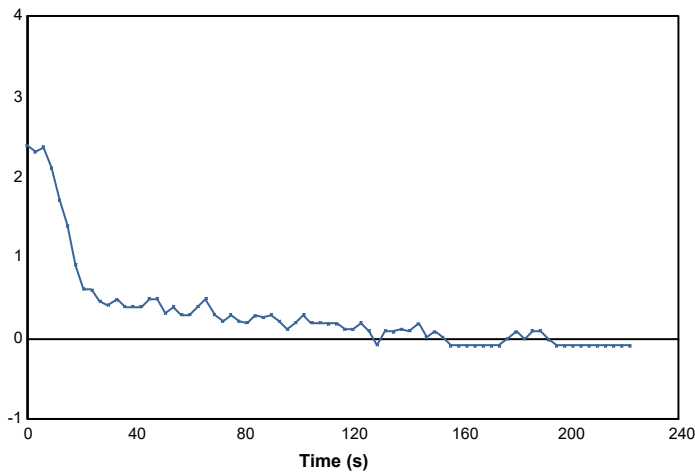
Mass loss rate (g/s)



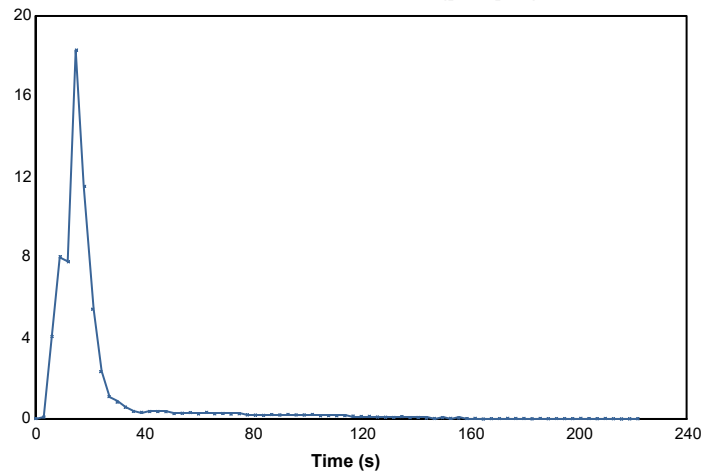
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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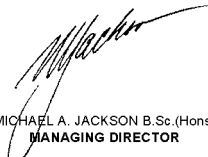
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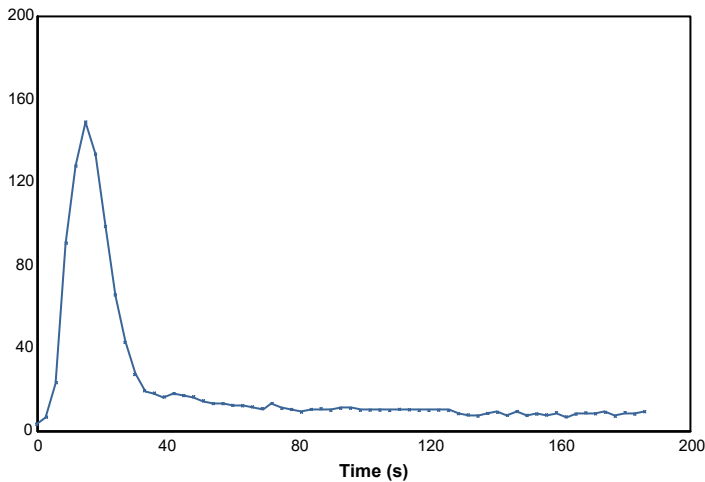
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

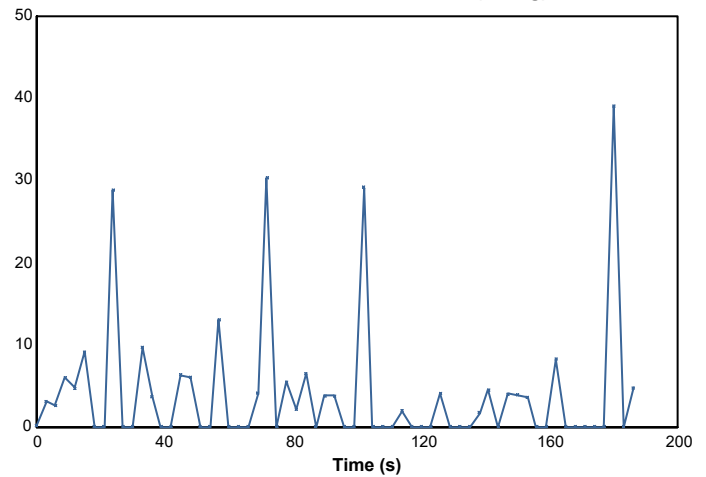
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

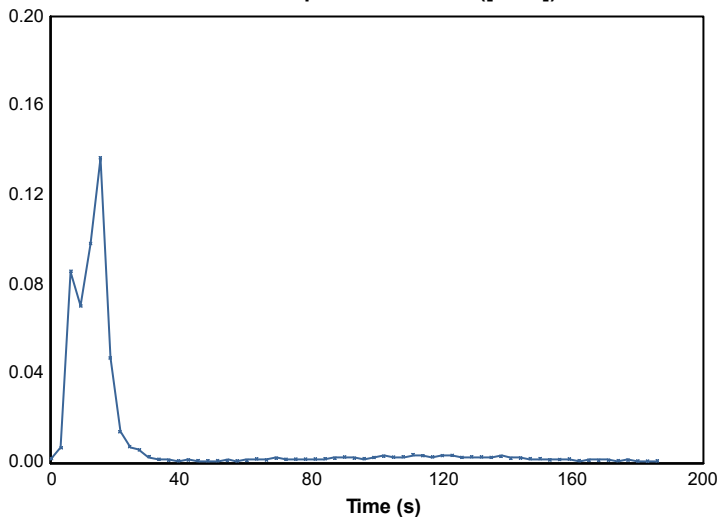
Heat release rate (kW/m²)



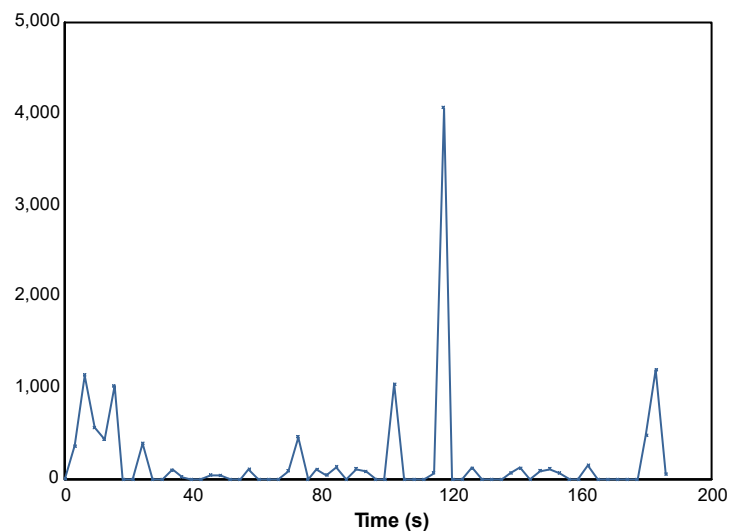
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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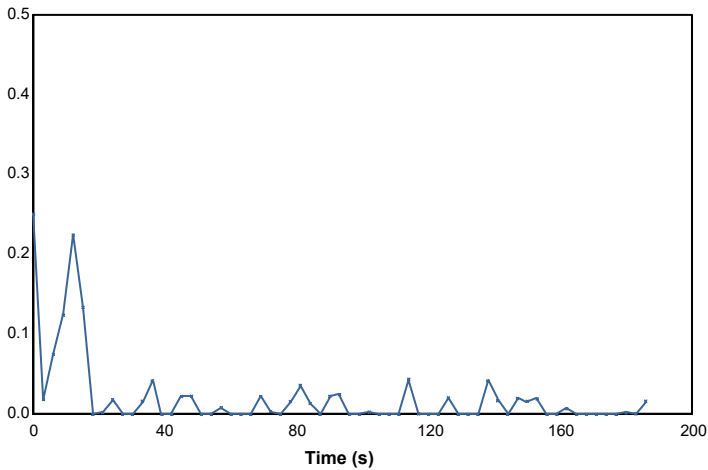
Phone (03) 9371 2400

TEST REPORT

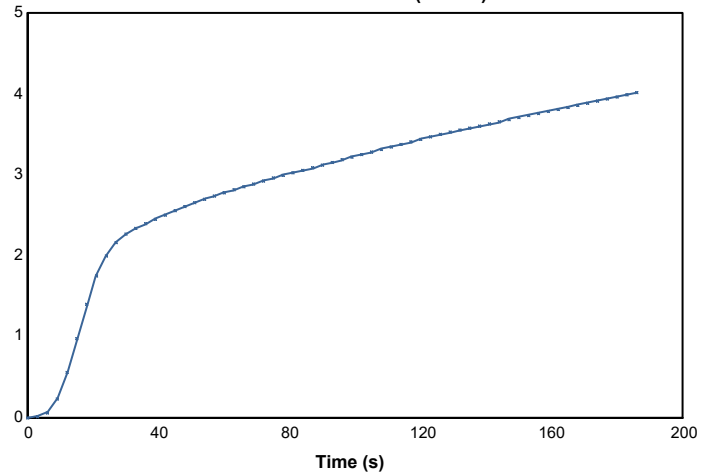
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Test Number : 21-002629
Issue Date : 28/05/2021
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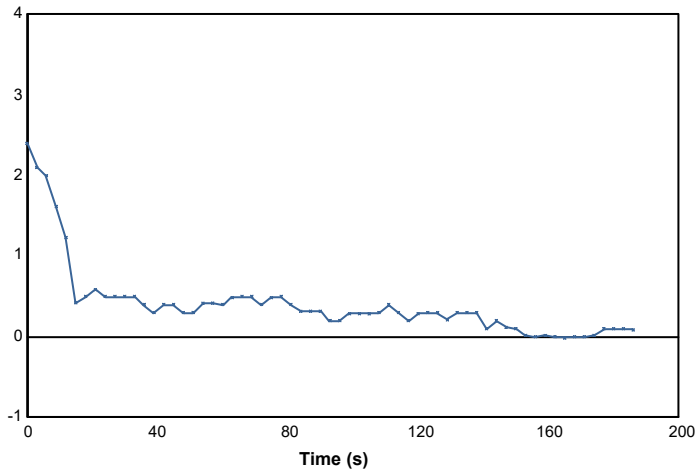
Mass loss rate (g/s)



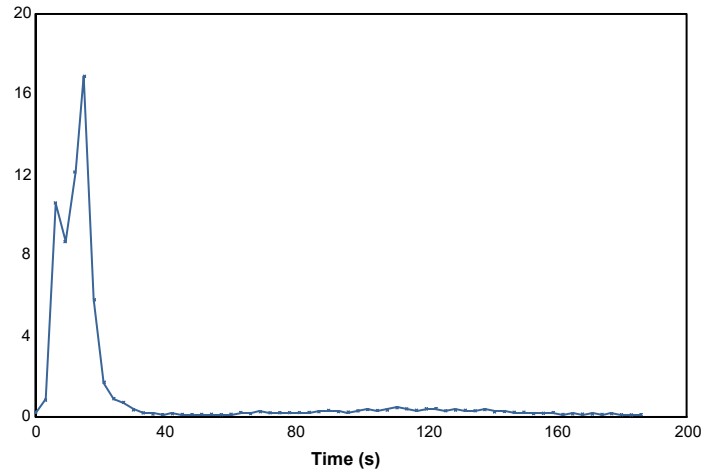
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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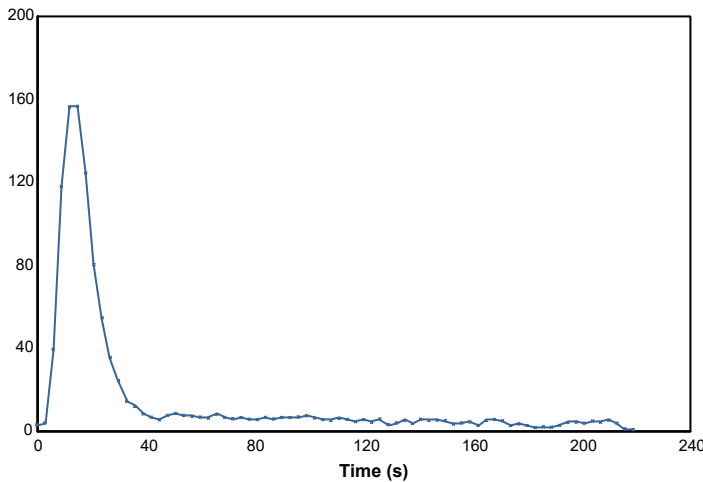
TEST REPORT

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FRANCE

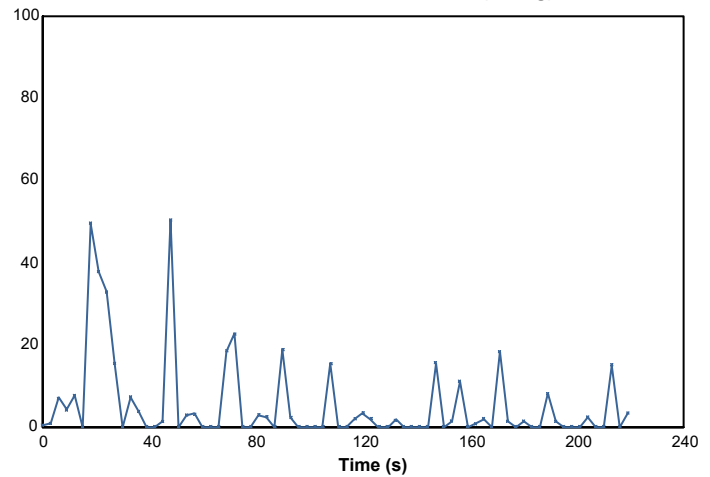
Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 4

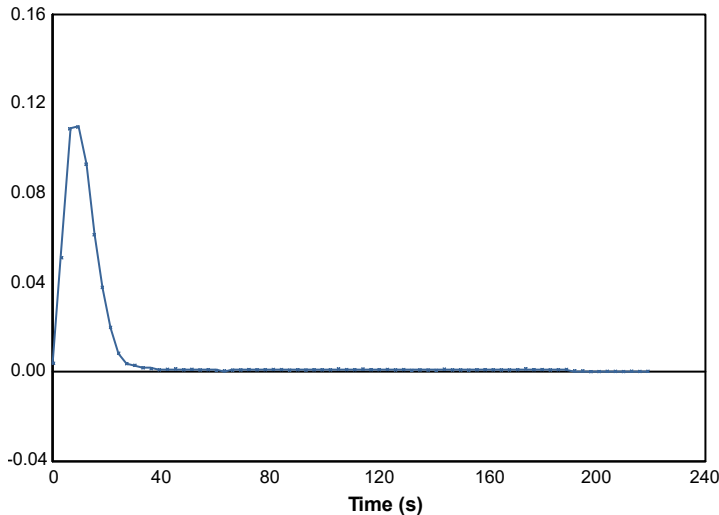
Heat release rate (kW/m²)



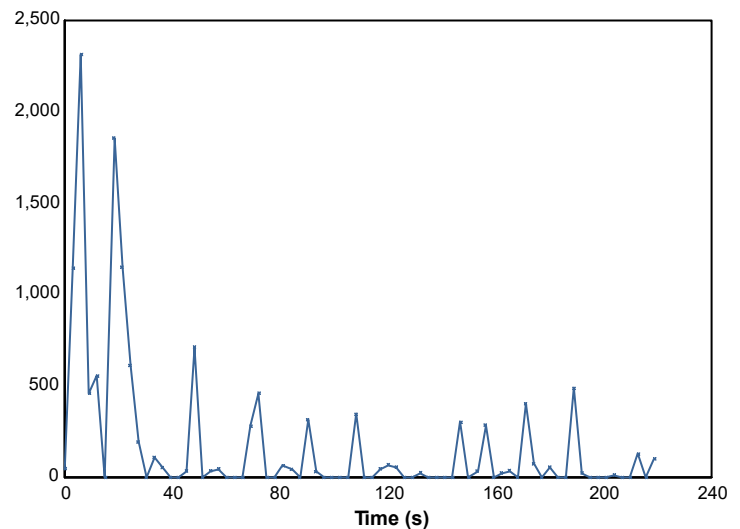
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

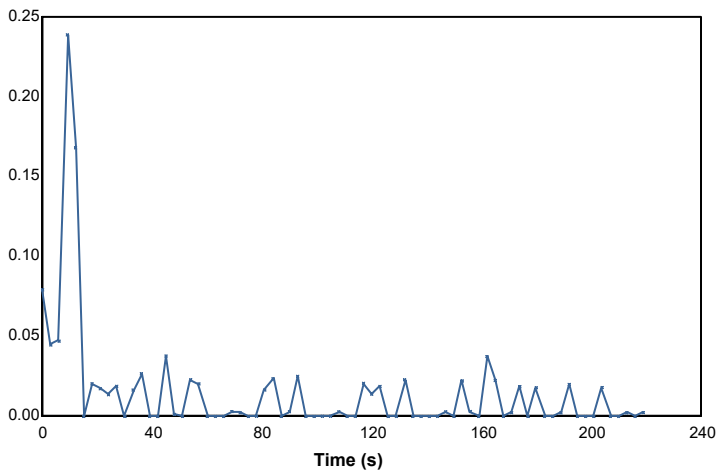
Phone (03) 9371 2400

TEST REPORT

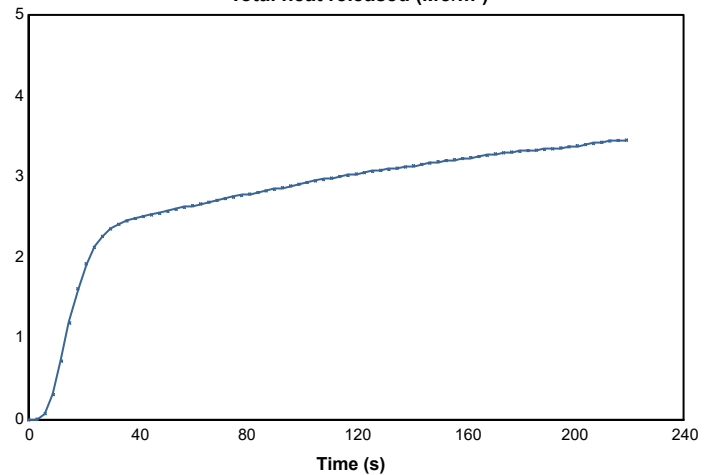
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

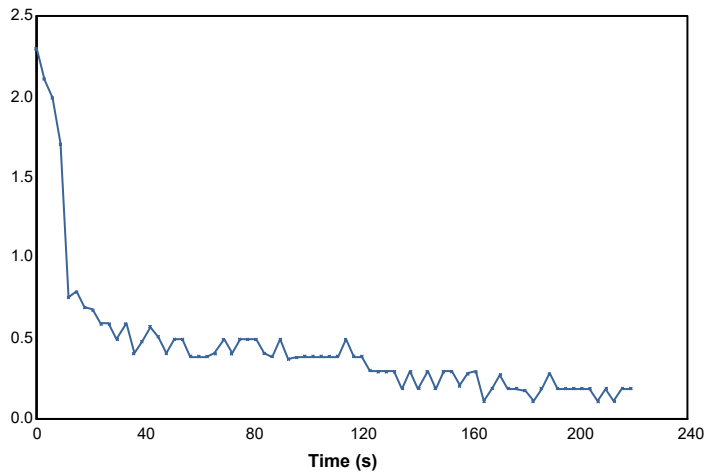
Mass loss rate (g/s)



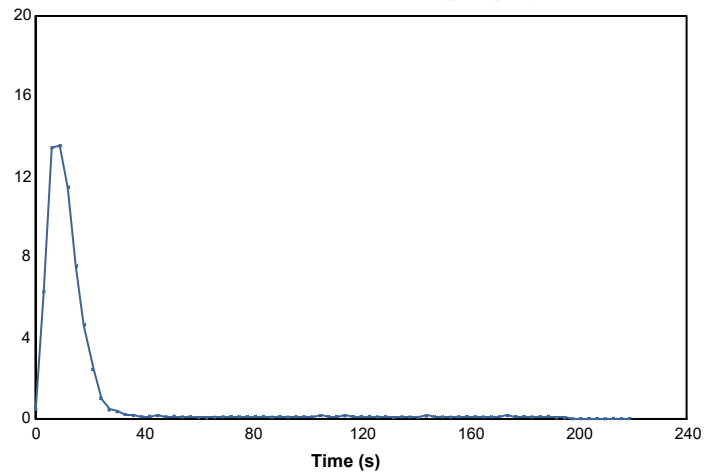
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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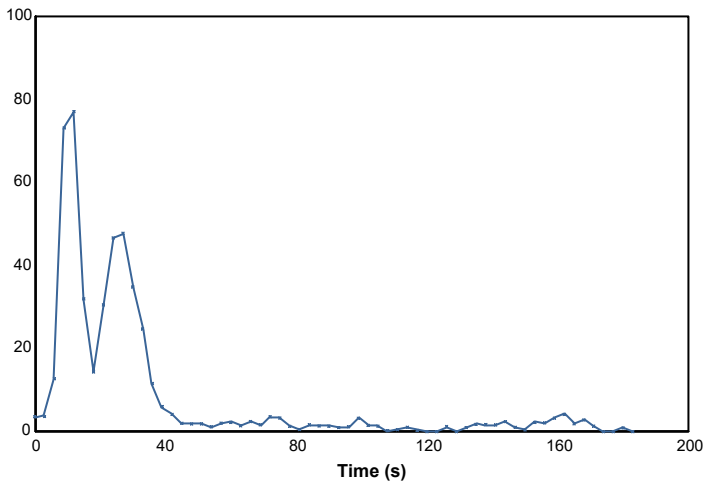
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

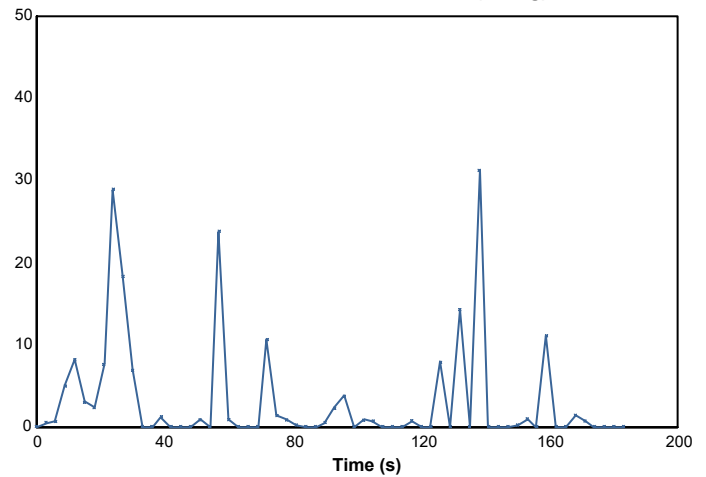
Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 5

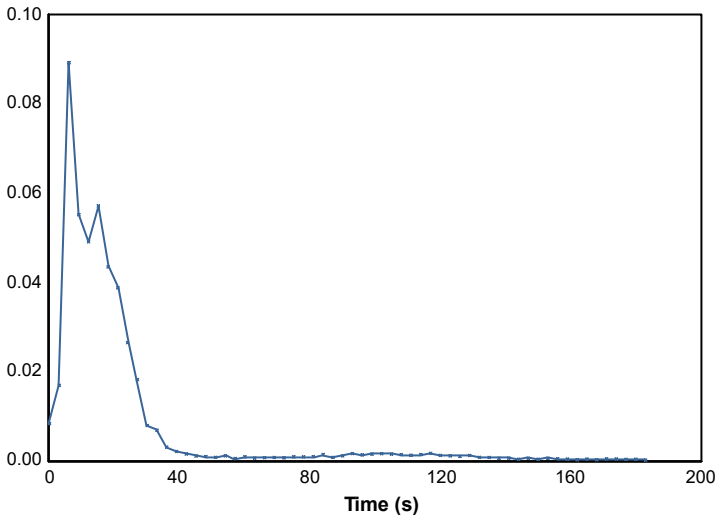
Heat release rate (kW/m²)



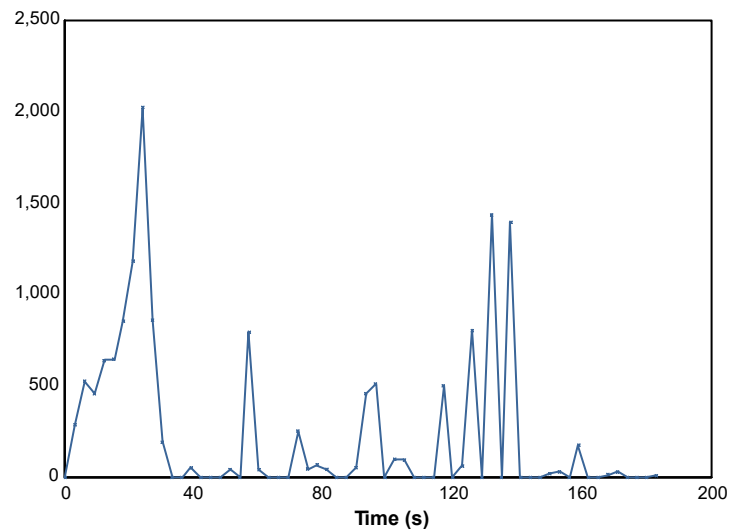
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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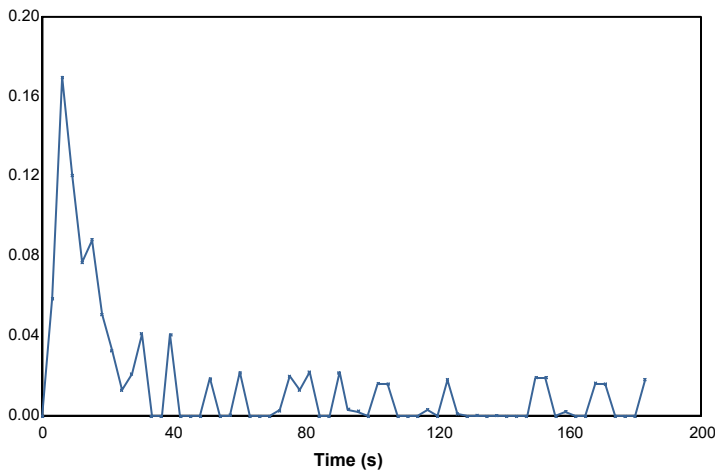
Phone (03) 9371 2400

TEST REPORT

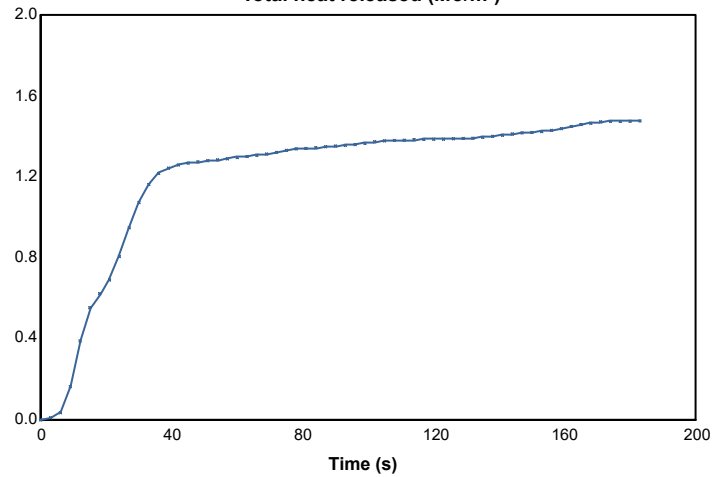
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
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Test Number : 21-002629
Issue Date : 28/05/2021
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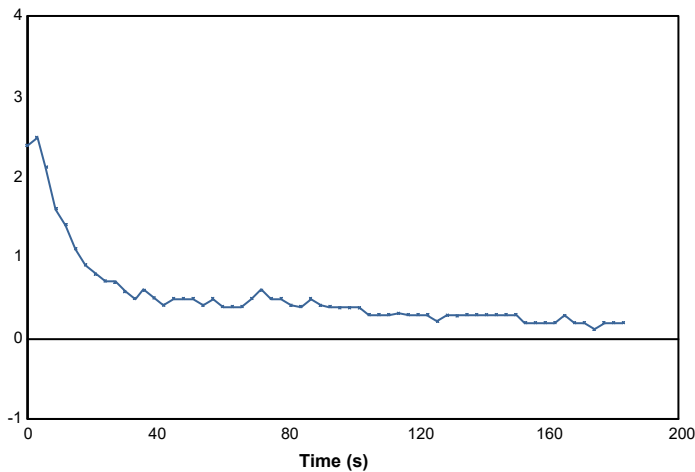
Mass loss rate (g/s)



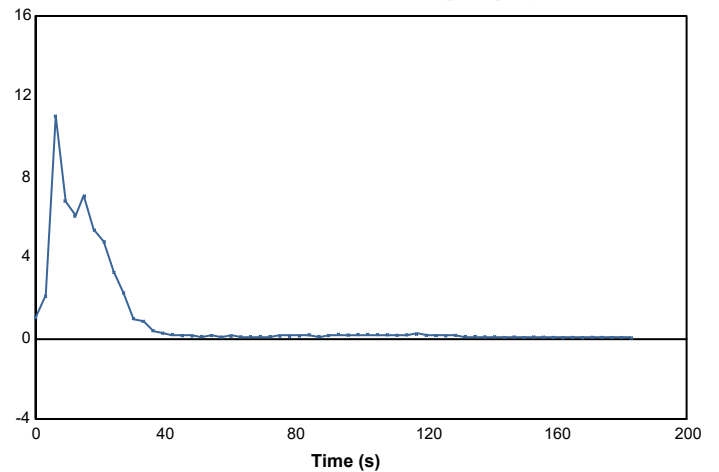
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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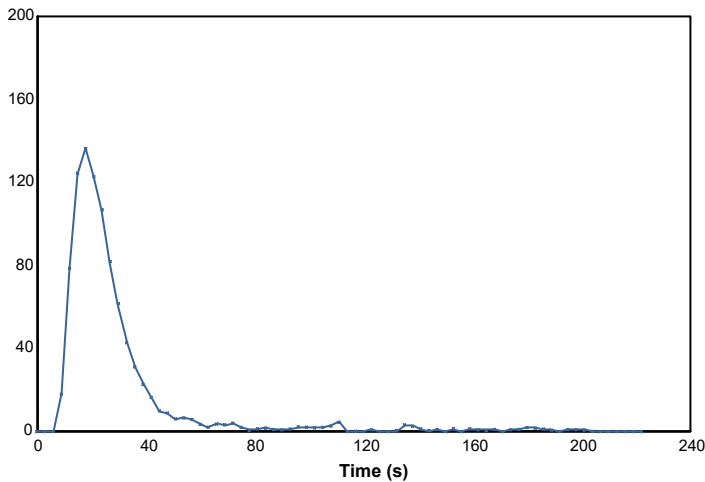
TEST REPORT

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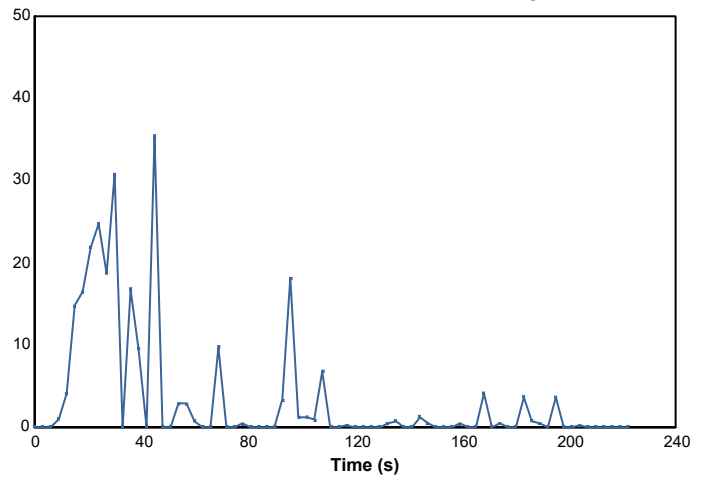
Test Number : 21-002629
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 6

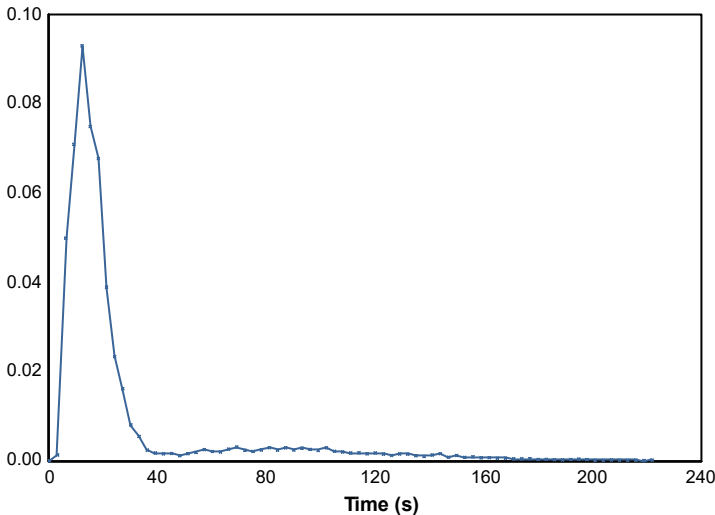
Heat release rate (kW/m²)



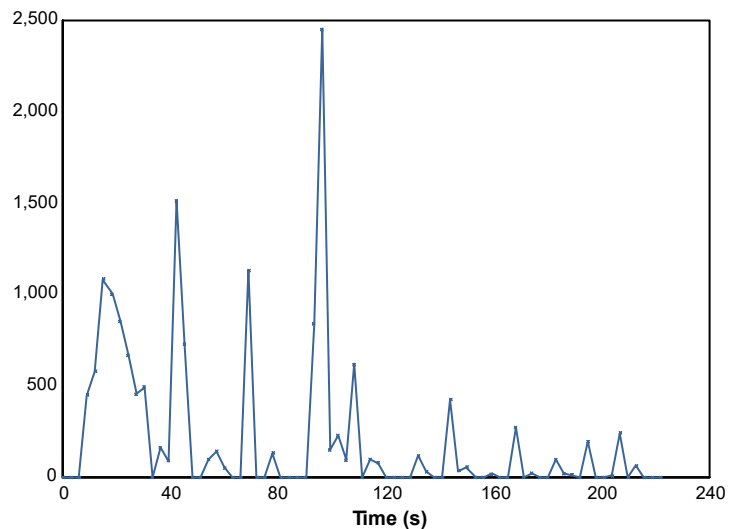
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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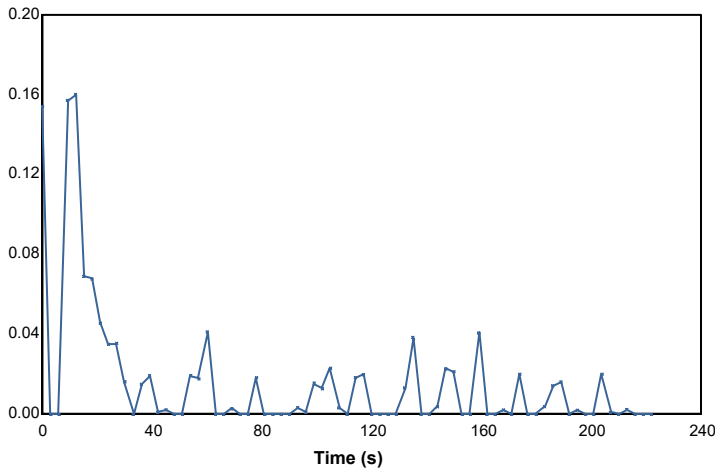
Phone (03) 9371 2400

TEST REPORT

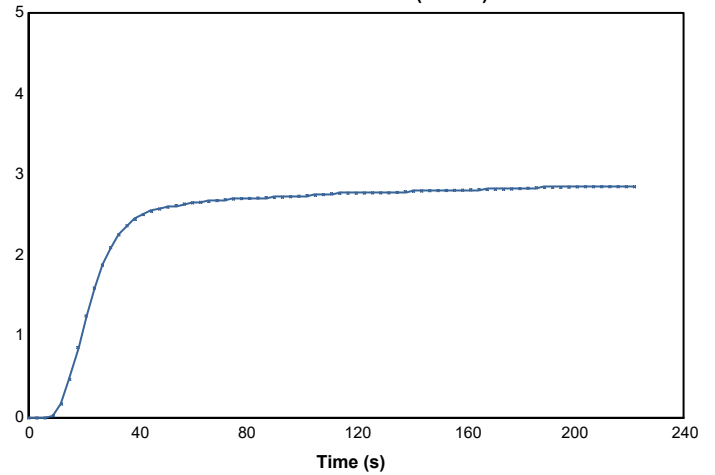
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
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FRANCE

Test Number : 21-002629
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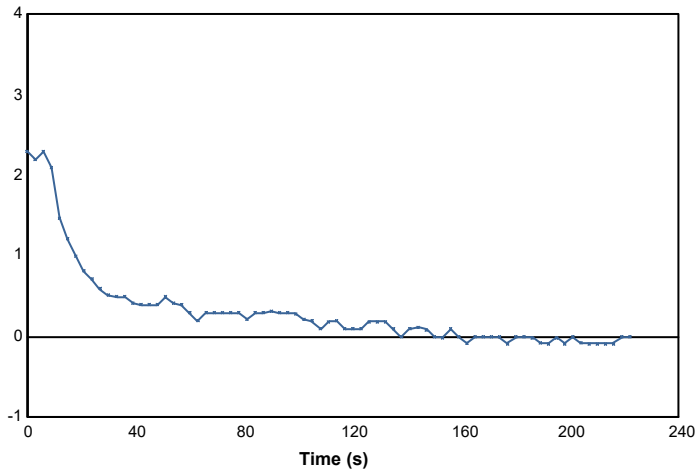
Mass loss rate (g/s)



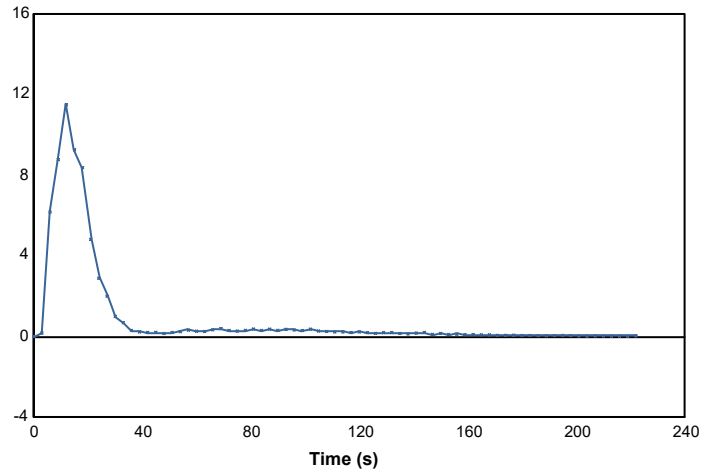
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "TOB4 Blanc"
Flexible vinyl film
Colour : Beige
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 2

Average Specific Extinction Area : 755.4 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "TOB4 Blanc"
Flexible vinyl film
Colour : Beige
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-09-2020
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	16.0	15.8	15.6	15.8	kW/m ²
Average Specific extinction area	806.3	722.1	737.6	755.4	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	8	11	9	9	sec
Test duration	191	194	195	193	sec
Peak heat release after ignition	117.3	106.9	116.7	113.7	kW/m ²
Average heat at 60 s	44.4	43.9	44.7	44.3	kW/m ²

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130 / 140 Fue Rene Cauche
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FRANCE

Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average heat at 180 s	16.2	16.0	16.0	16.1	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.9	2.9	2.9	2.9	MJ/m ²
Average effective heat of combustion	12.4	13.3	11.3	12.3	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.3	2.6	2.4	2.4	g
Mass remaining	0.2	0.5	0.3	0.3	g
Mass percentage pyrolysed	92.0	81.5	86.7	86.7	%
Mass loss	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.3	1.2	1.3	1.3	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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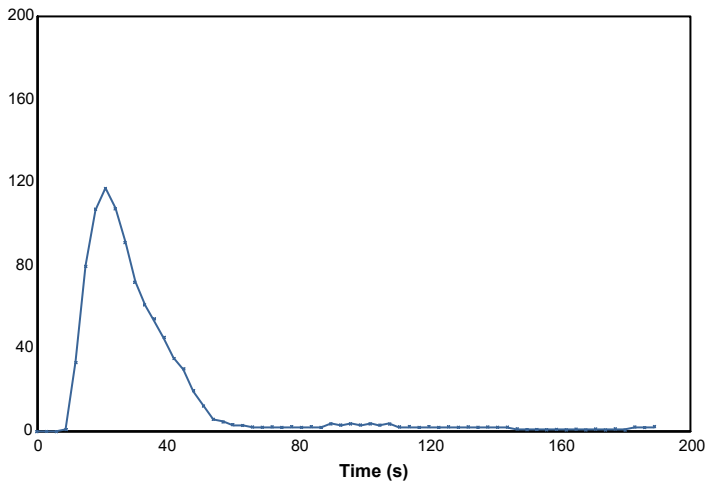
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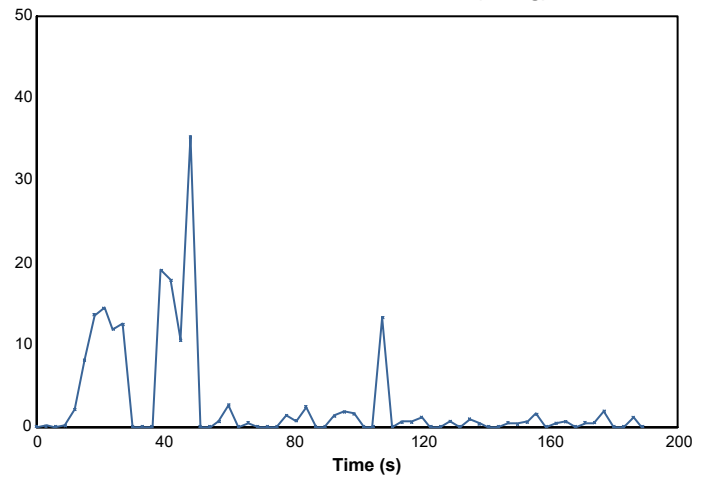
Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

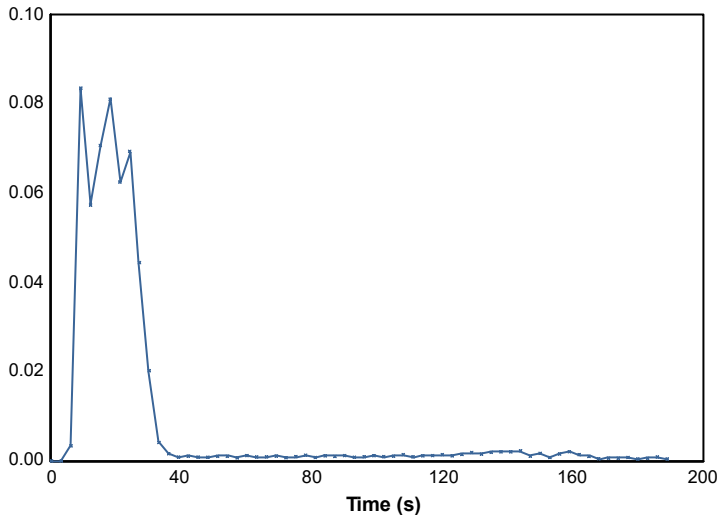
Heat release rate (kW/m²)



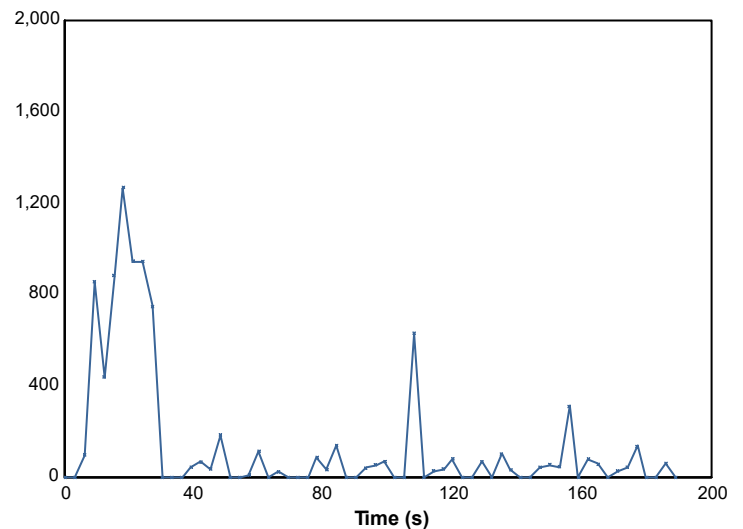
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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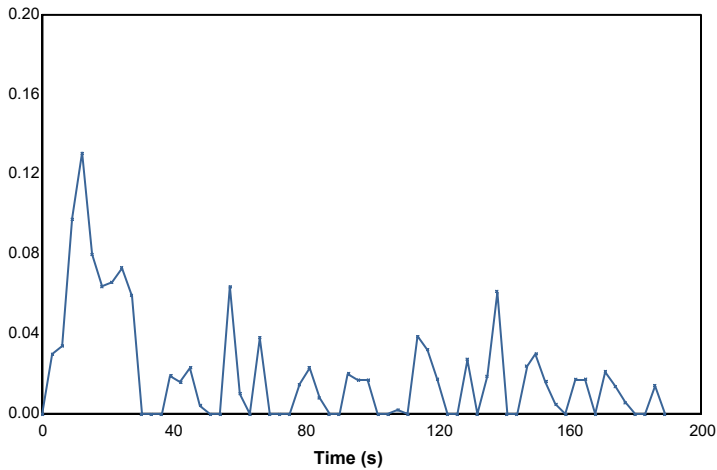
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TEST REPORT

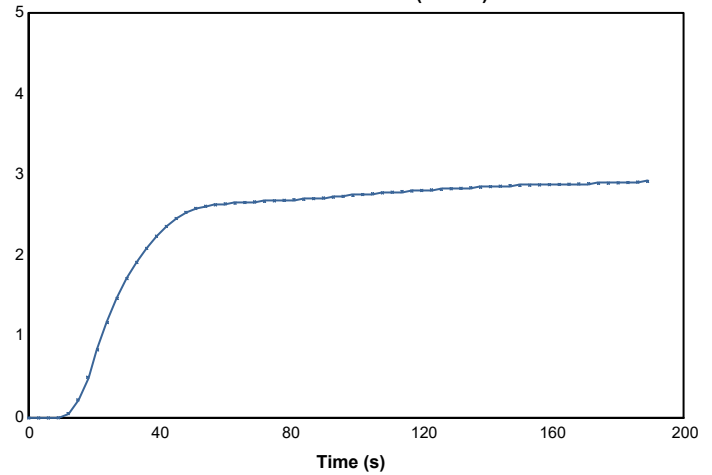
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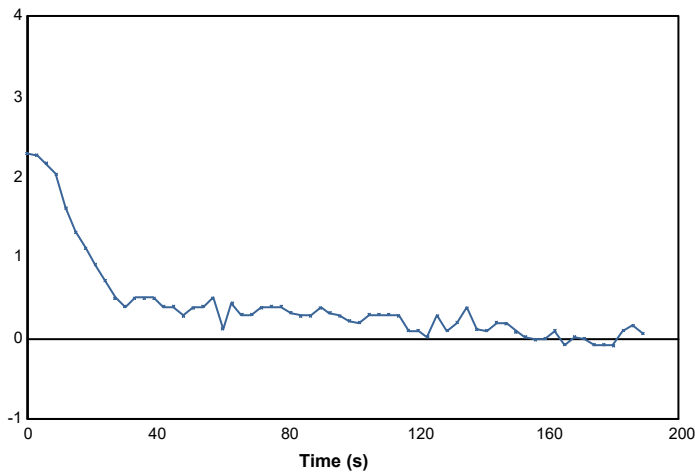
Mass loss rate (g/s)



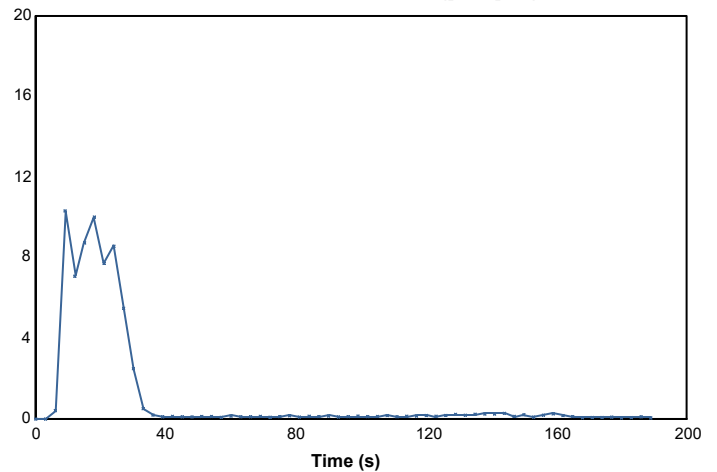
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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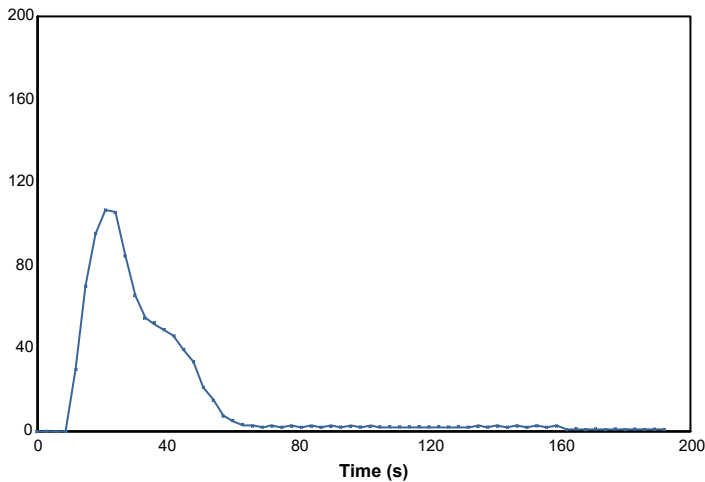
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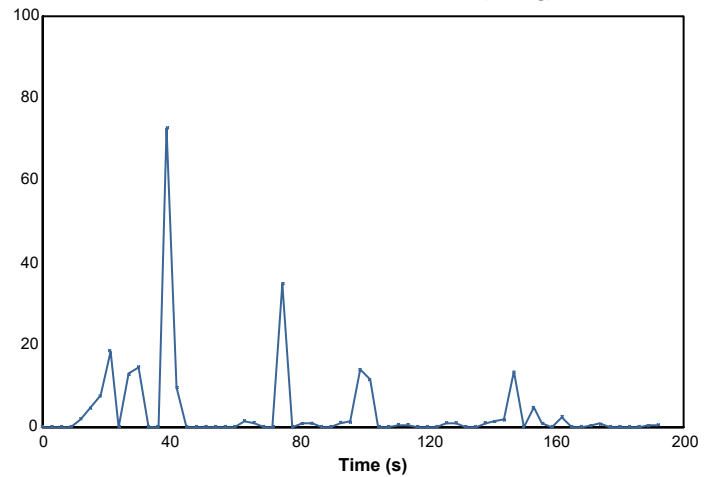
Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

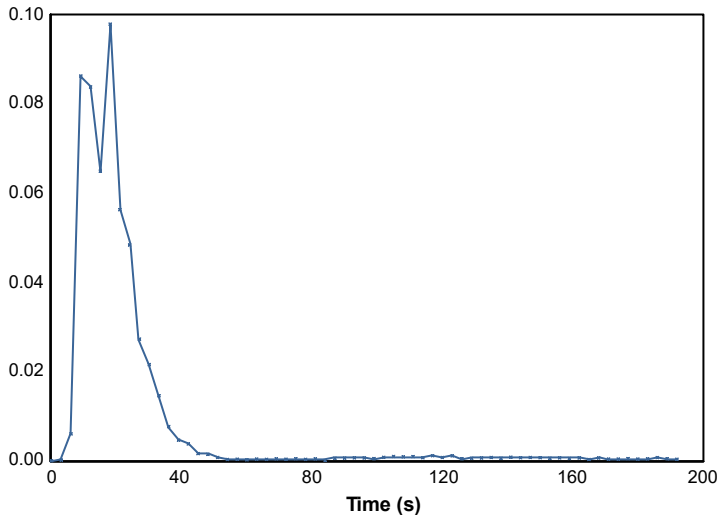
Heat release rate (kW/m²)



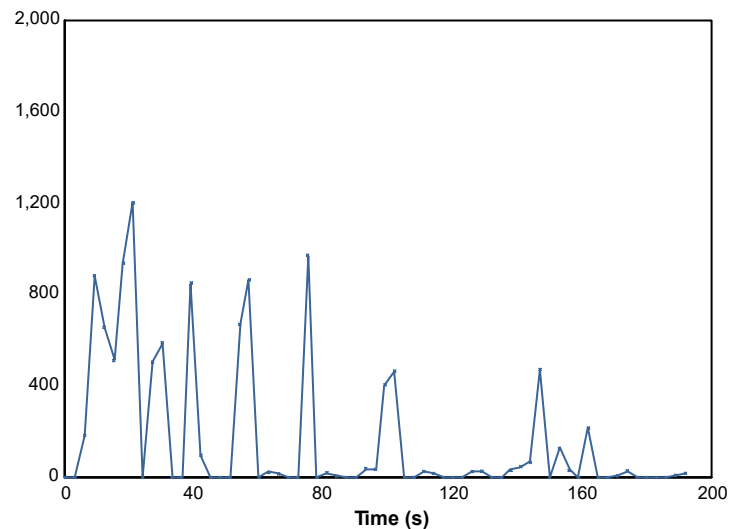
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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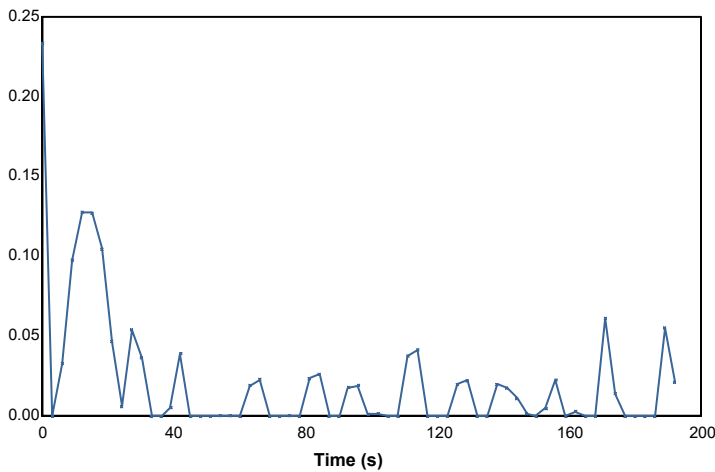
Phone (03) 9371 2400

TEST REPORT

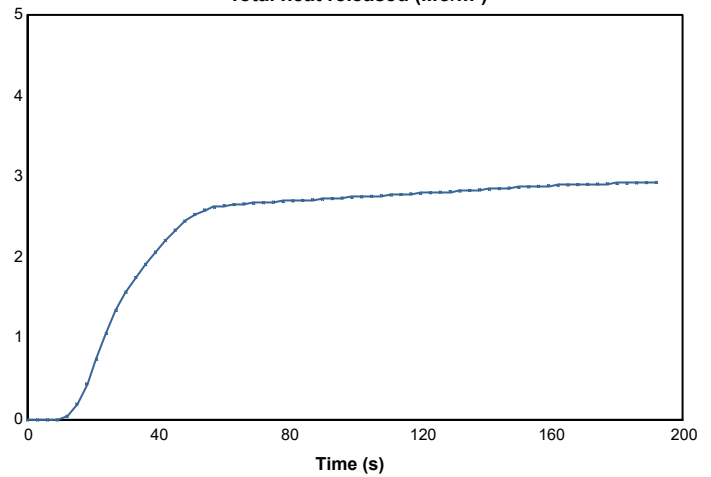
Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

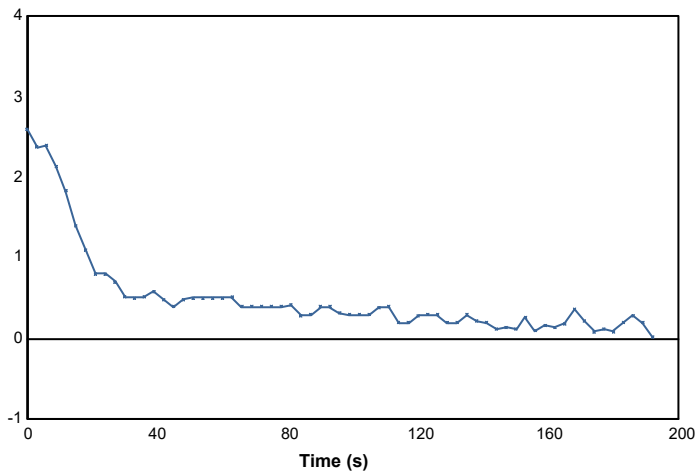
Mass loss rate (g/s)



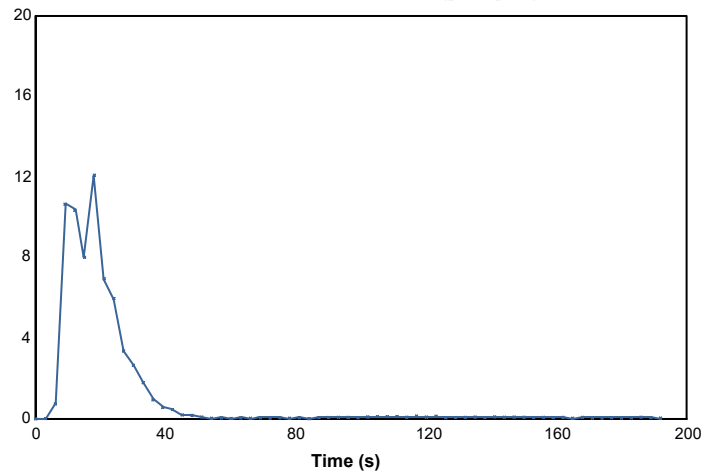
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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MICHAEL A. JACKSON B.Sc.(Hons)
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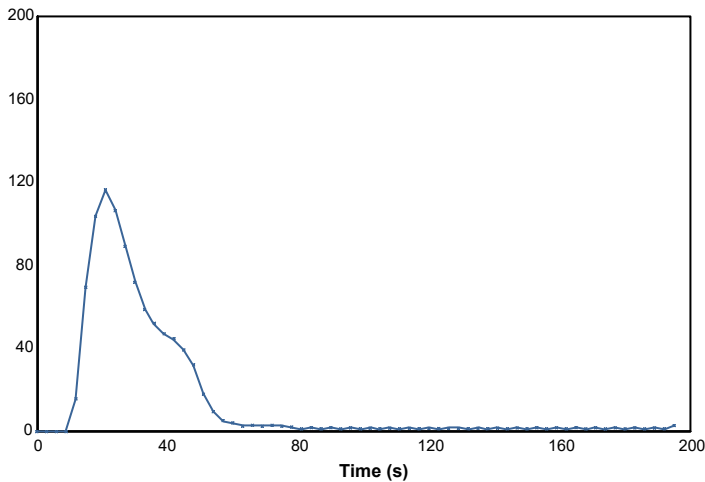
TEST REPORT

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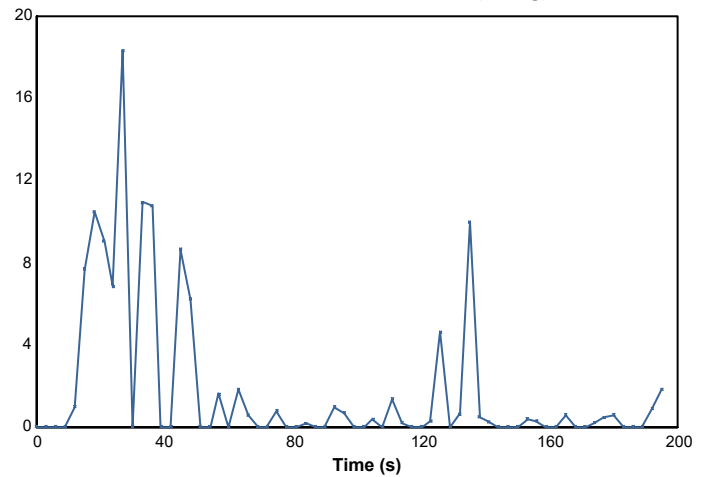
Test Number : 21-002627
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

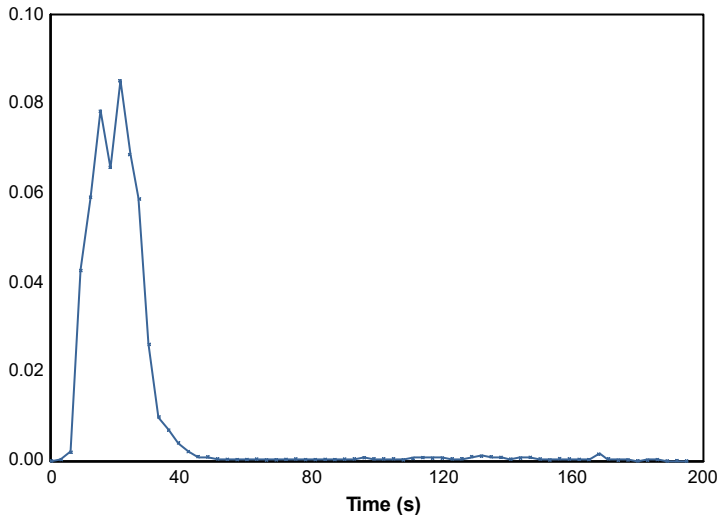
Heat release rate (kW/m²)



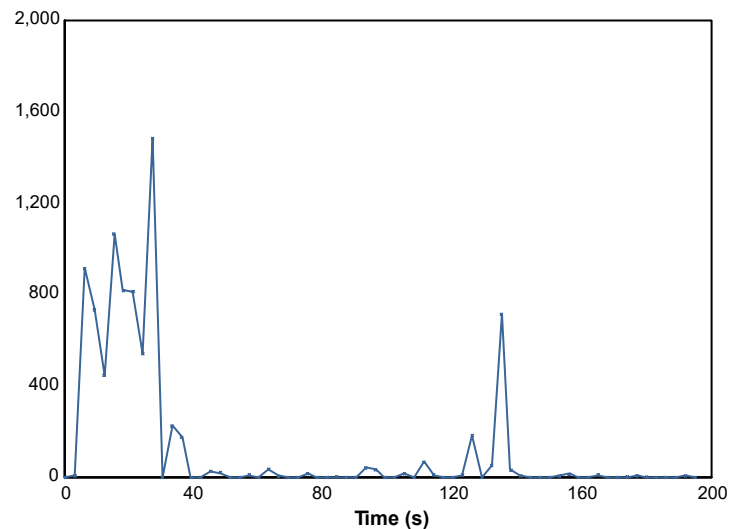
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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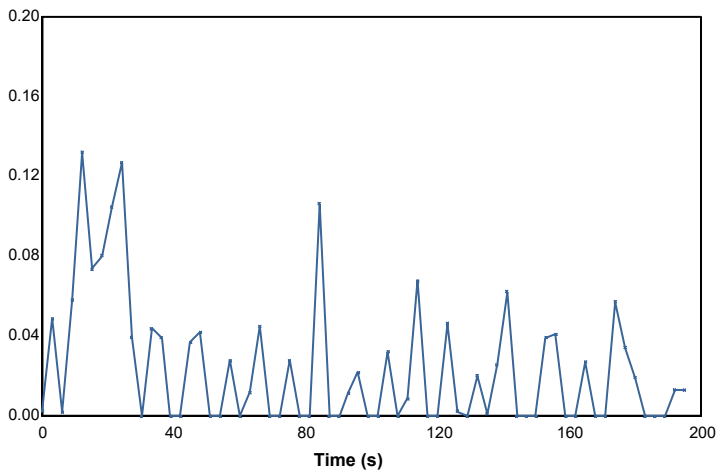
Phone (03) 9371 2400

TEST REPORT

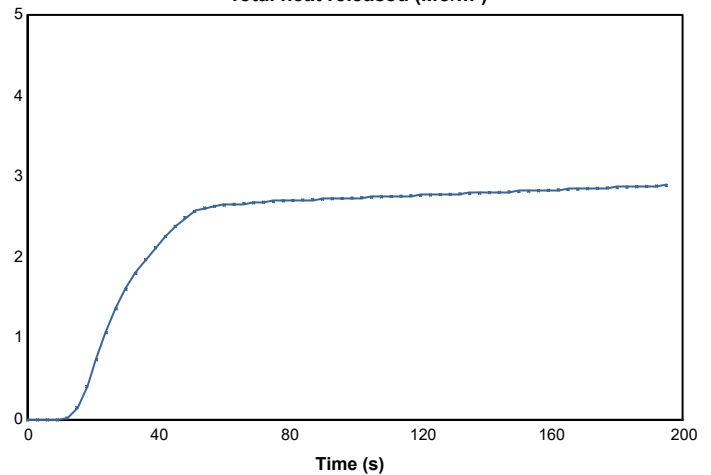
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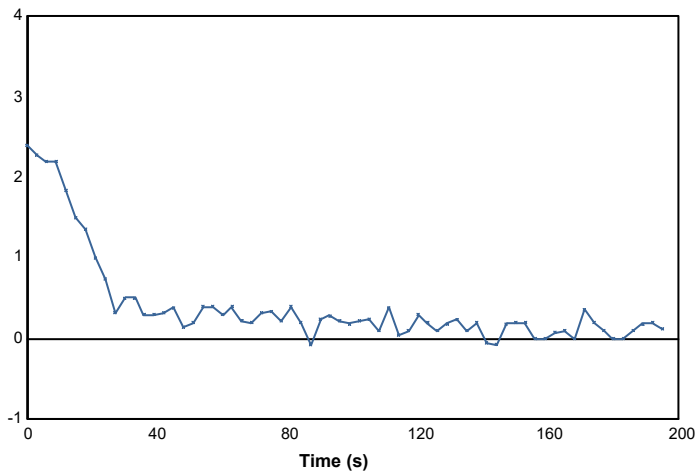
Mass loss rate (g/s)



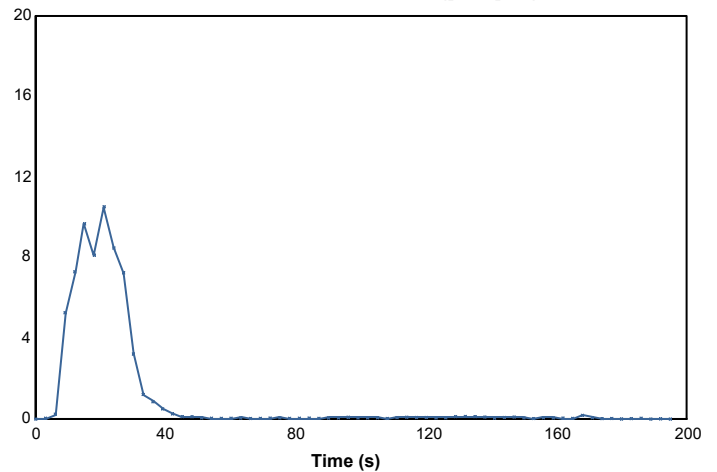
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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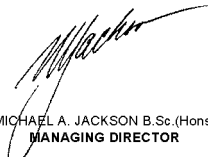
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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sponsor Product Clients Ref : "TOB5 Blanc"
Flexible vinyl film
Colour : Beige
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 440g/m²
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 732.0 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

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FRANCE

Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Sample Description Clients Ref : "TOB5 Blanc"
Flexible vinyl film
Colour : Beige
End Use : Stretched/Suspended Ceiling
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx. 440g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 31-08-2020
Face Tested Beige

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	12.2	16.0	18.8	16.5	21.8	18.8	17.4	kW/m ²
Average Specific extinction area	687.6	753.4	658.5	777.5	741.9	772.9	732.0	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	9	8	7	8	8	8	8	sec
Test duration	255	272	268	290	252	246	264	sec
Peak heat release after ignition	87.4	92.8	101.6	95.2	106.9	79.3	93.9	kW/m ²
Average heat at 60 s	41.0	43.9	55.4	44.9	58.7	50.9	49.1	kW/m ²
Average heat at 180 s	17.4	21.1	25.5	22.5	27.7	23.6	23.0	kW/m ²

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FRANCE

Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.2	4.2	4.9	4.6	5.3	4.6	4.5	4.5	MJ/m ²
Ave. effective heat of combustion	6.5	9.7	11.0	10.7	11.3	12.0	10.2	10.2	MJ/kg
Initial thickness	0.17	0.17	0.17	0.17	0.17	0.17	0.2	0.2	mm
Initial mass	4.3	4.3	4.3	4.5	4.4	4.3	4.4	4.4	g
Mass remaining	0.6	0.6	0.6	1.1	0.6	1.0	0.7	0.7	g
Mass percentage pyrolysed	87.0	86.5	85.6	76.3	86.4	76.9	83.1	83.1	%
Mass loss	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	kg/m ²
Average rate of mass loss	1.9	1.6	1.7	1.5	1.9	1.6	1.7	1.7	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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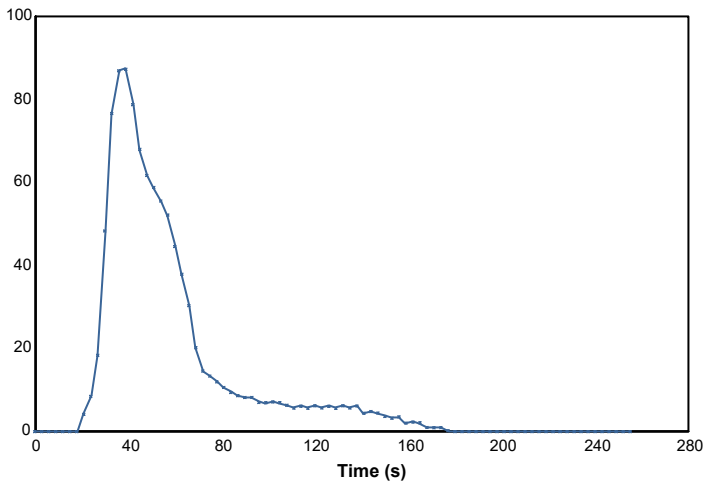
TEST REPORT

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130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

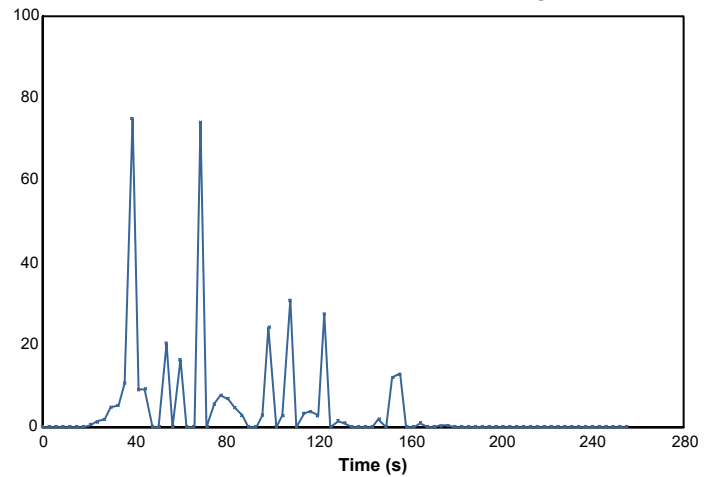
Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 1

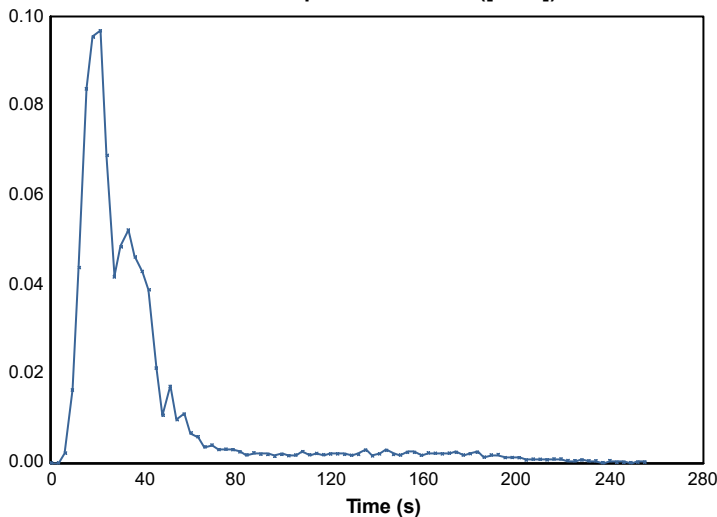
Heat release rate (kW/m²)



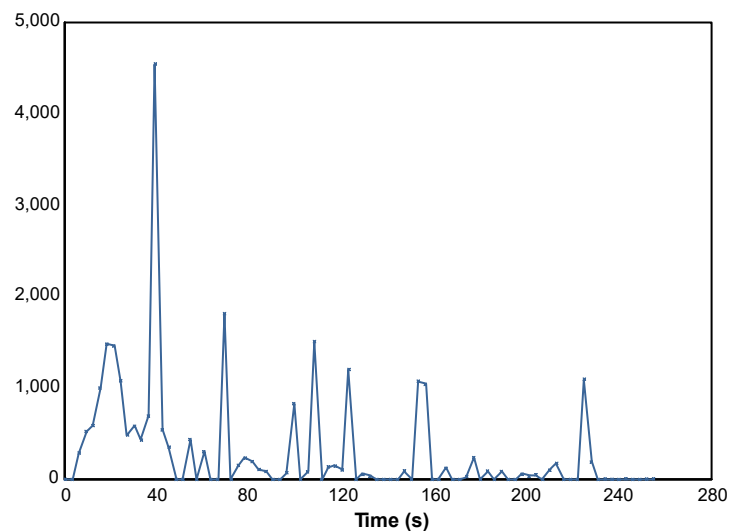
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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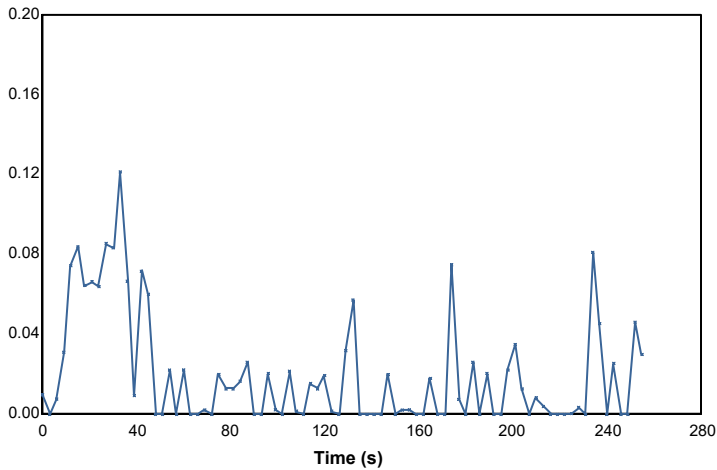
Phone (03) 9371 2400

TEST REPORT

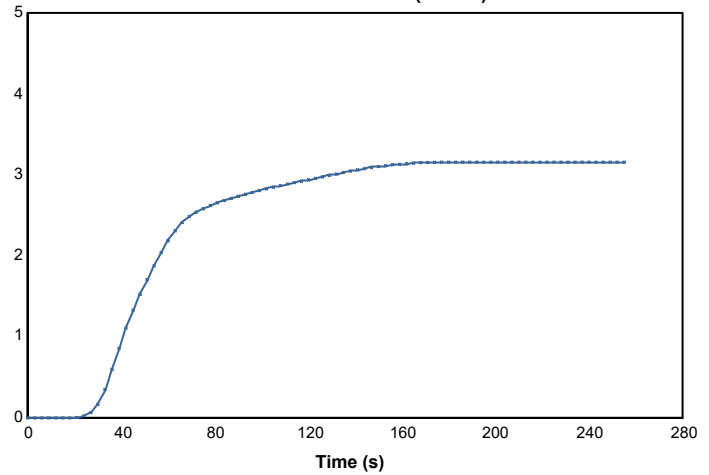
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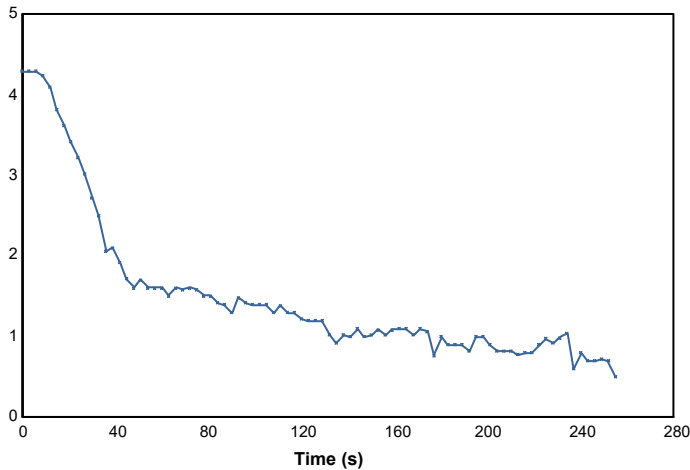
Mass loss rate (g/s)



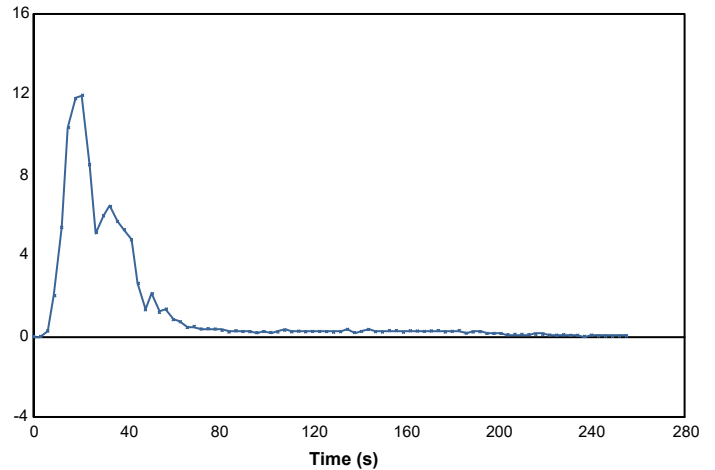
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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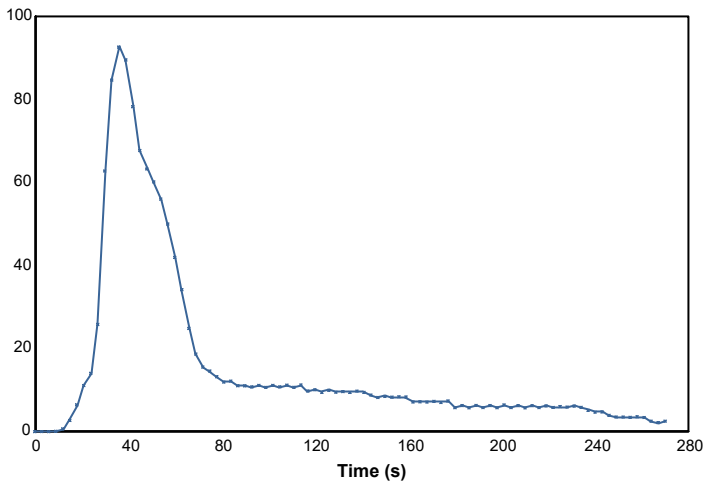
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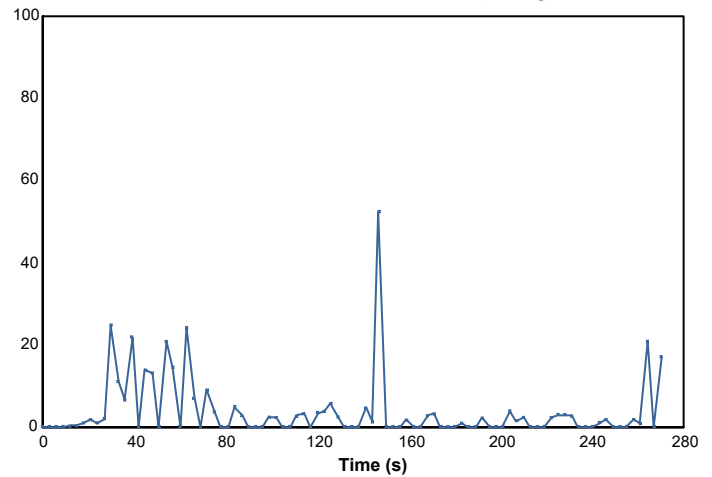
Test Number : 21-002643
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Specimen : 2

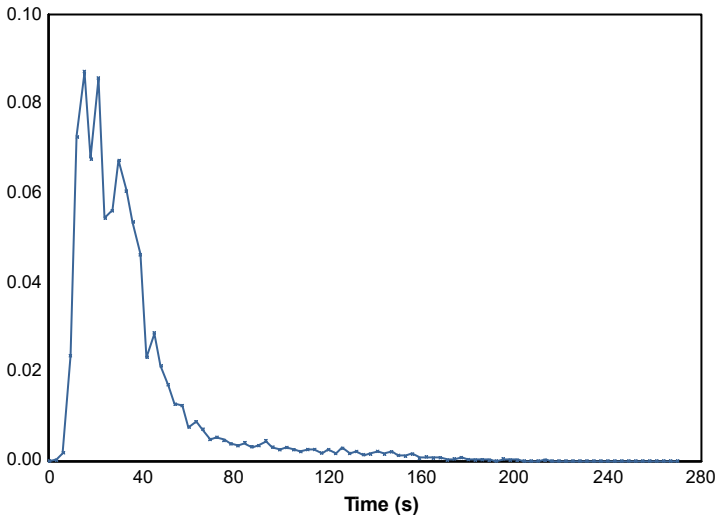
Heat release rate (kW/m²)



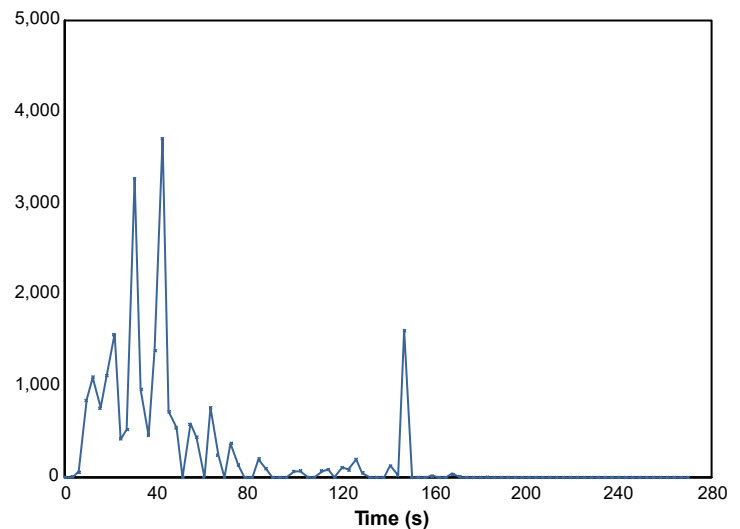
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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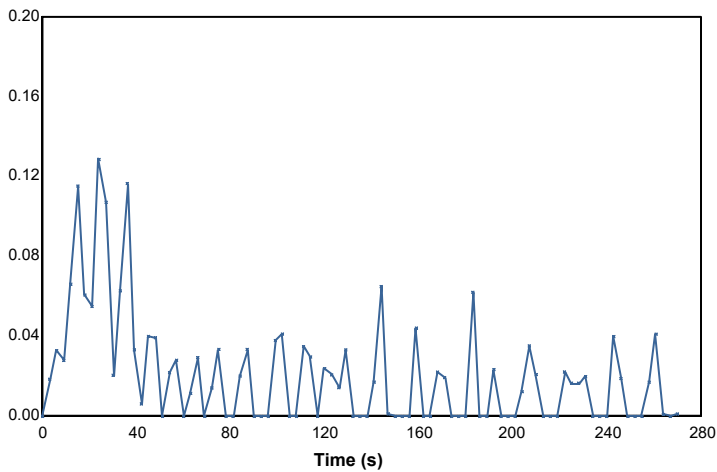
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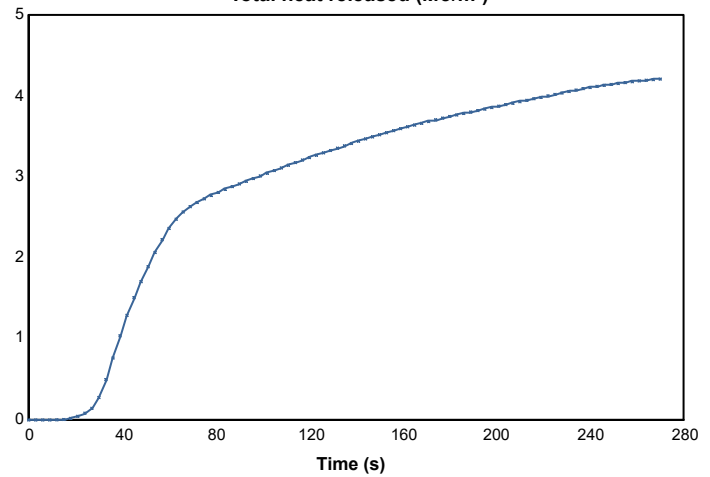
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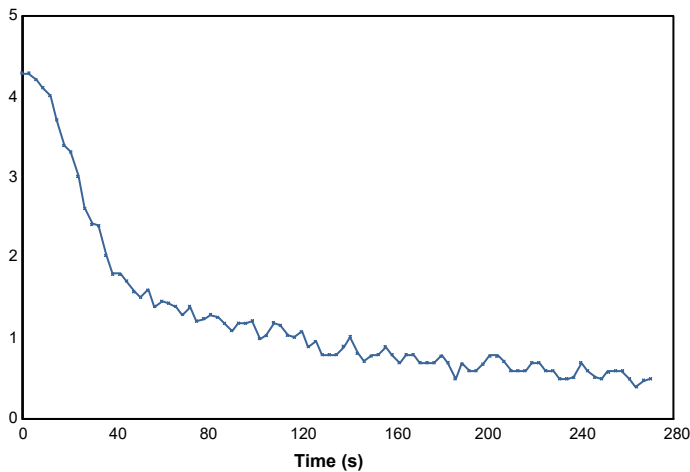
Mass loss rate (g/s)



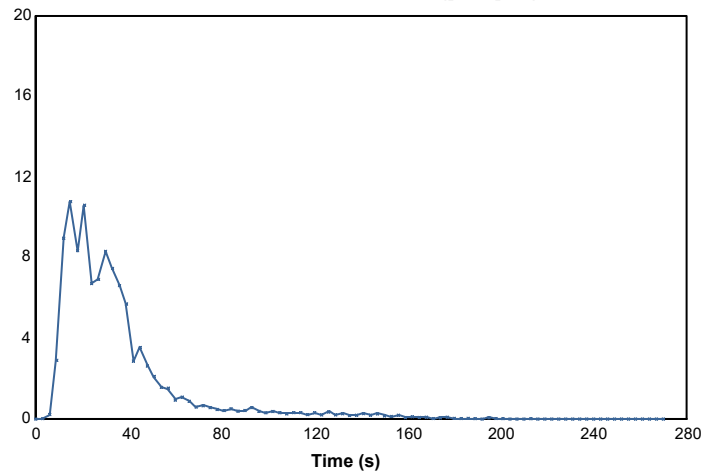
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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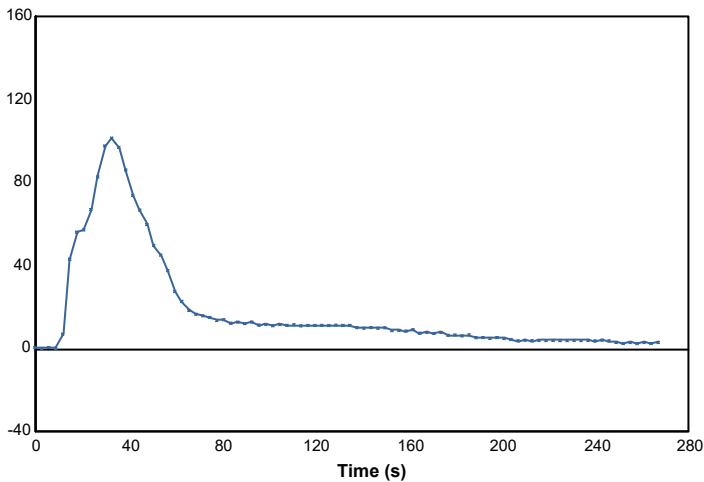
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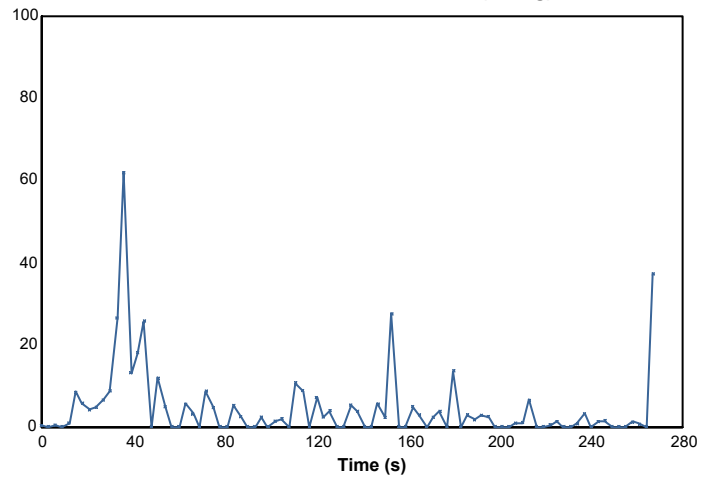
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Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 3

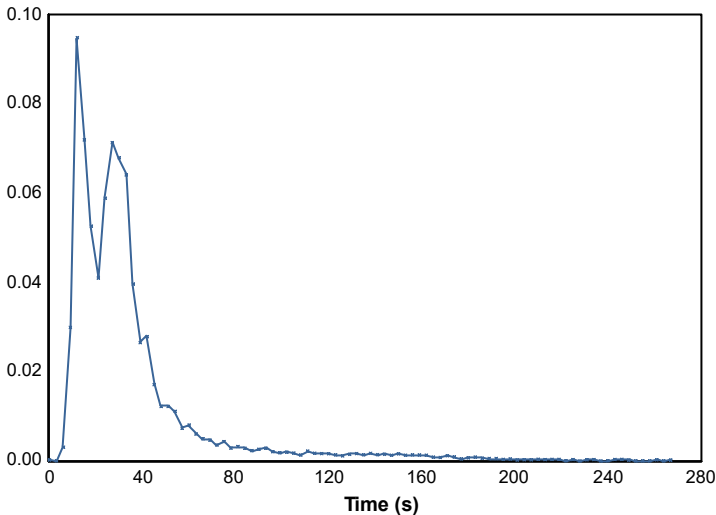
Heat release rate (kW/m²)



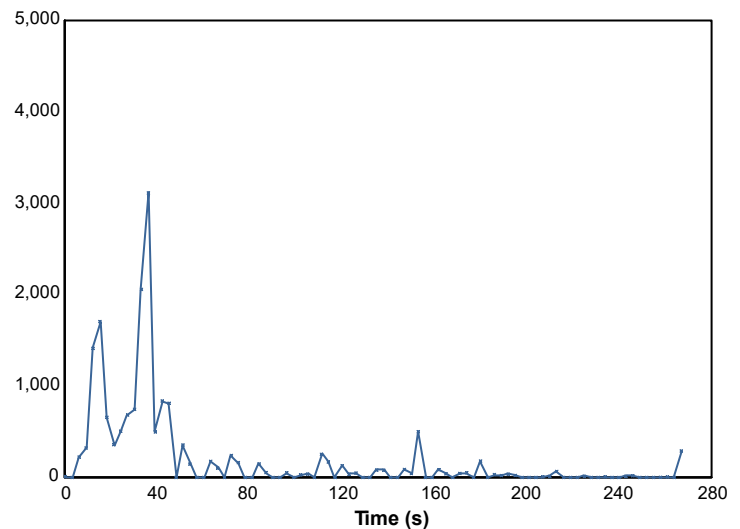
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

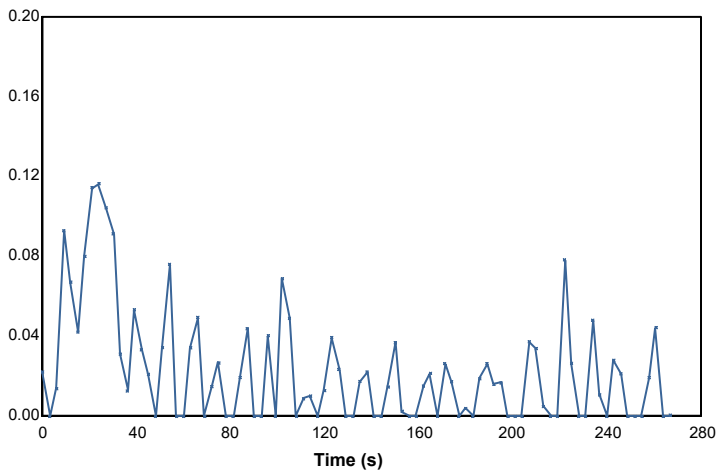
Phone (03) 9371 2400

TEST REPORT

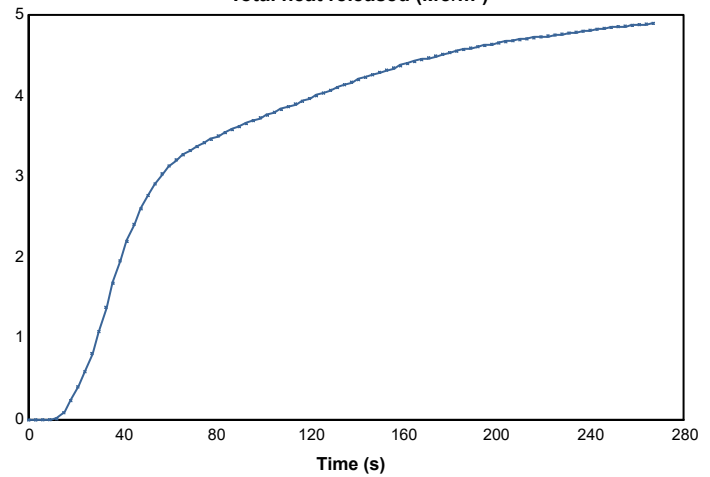
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

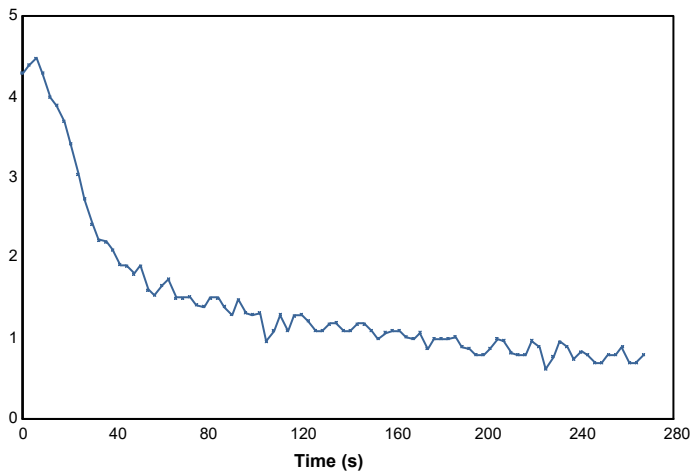
Mass loss rate (g/s)



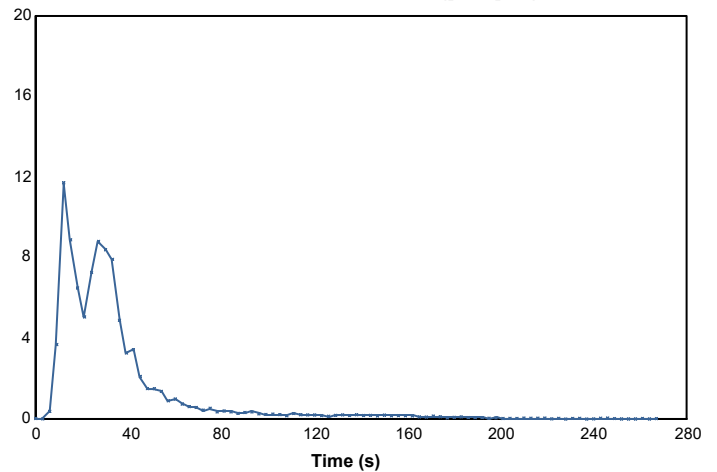
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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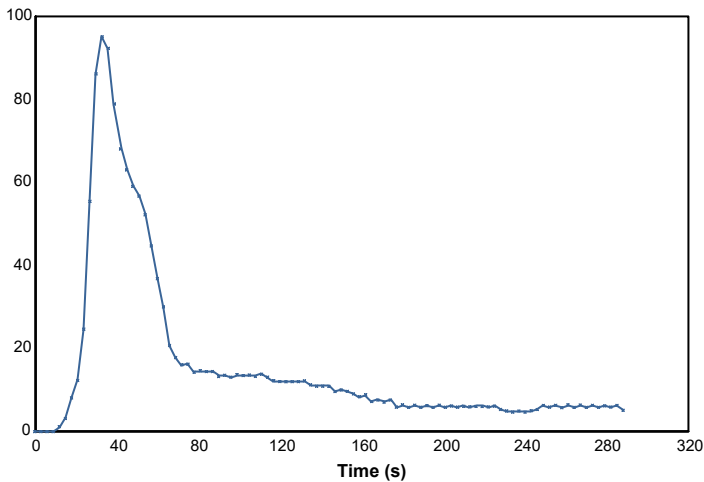
TEST REPORT

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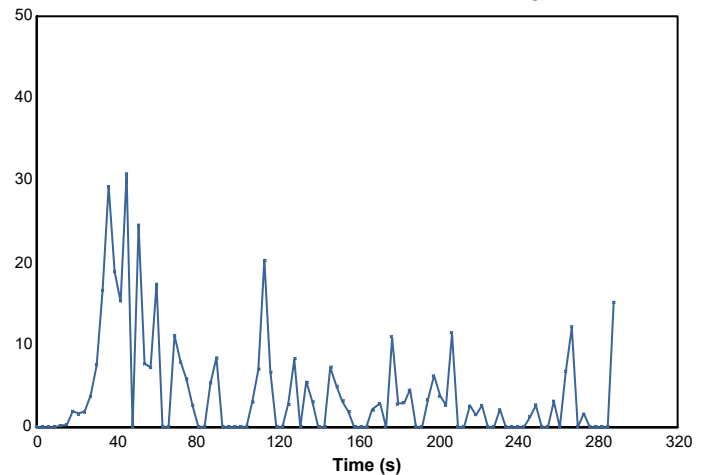
Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 4

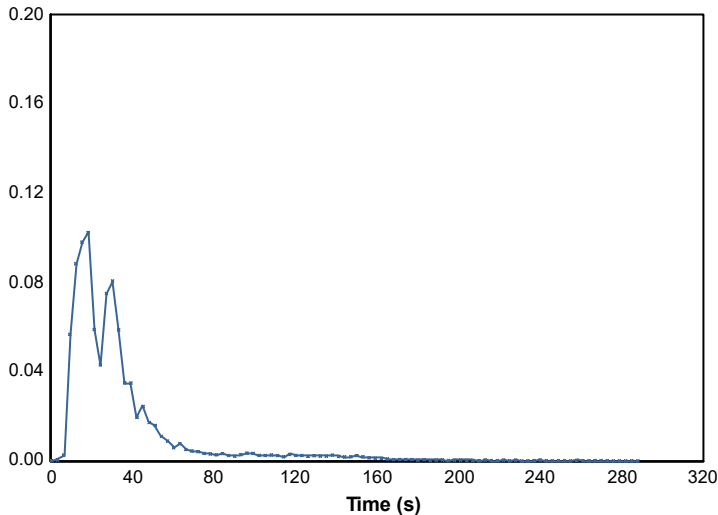
Heat release rate (kW/m²)



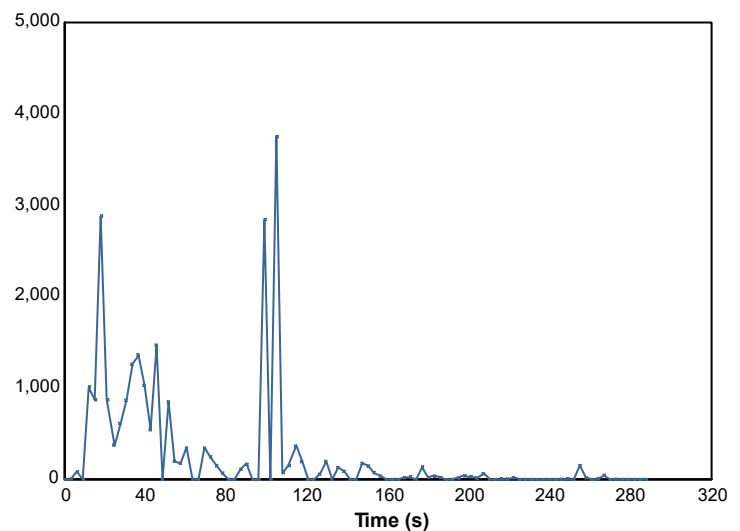
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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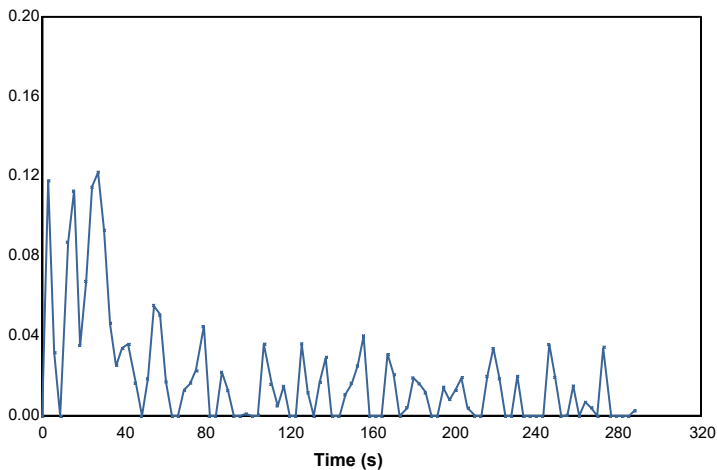
Phone (03) 9371 2400

TEST REPORT

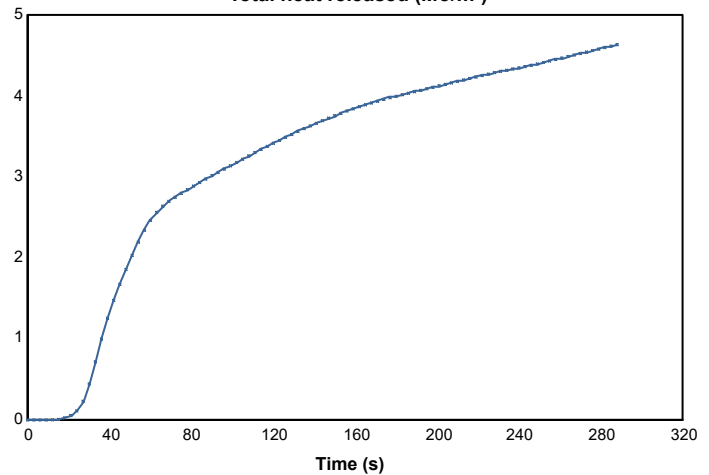
Client : NEWMAT S.A.S.
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Test Number : 21-002643
Issue Date : 28/05/2021
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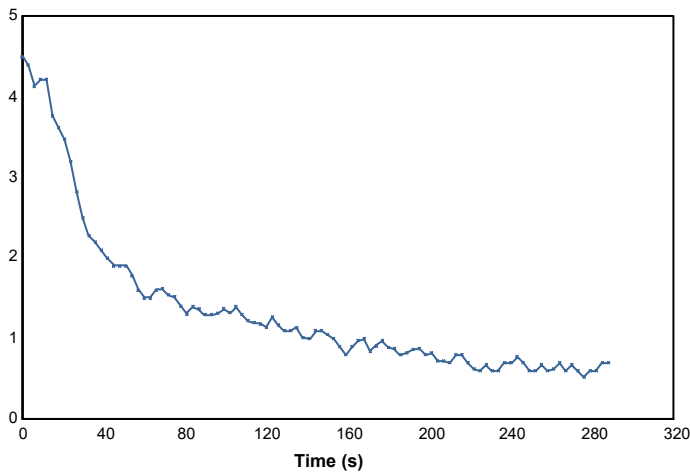
Mass loss rate (g/s)



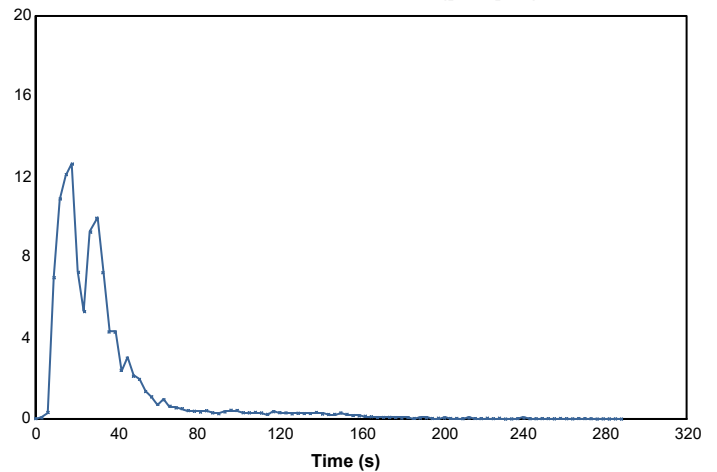
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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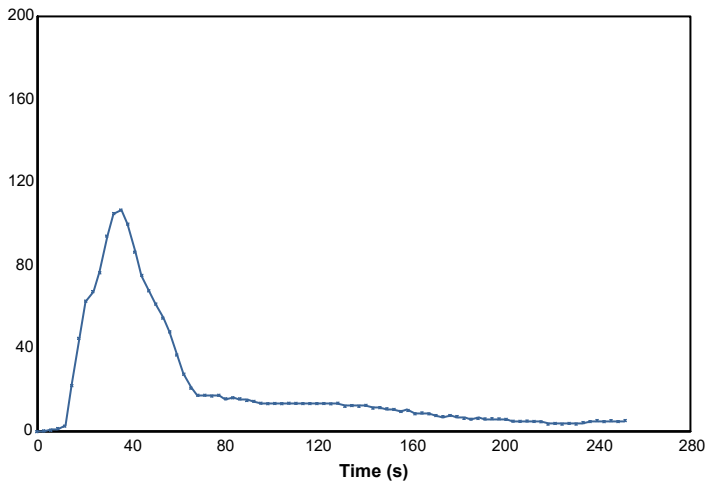
TEST REPORT

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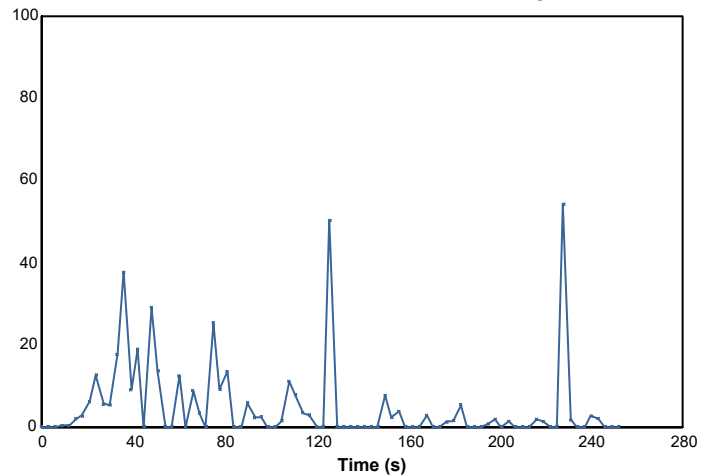
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Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 5

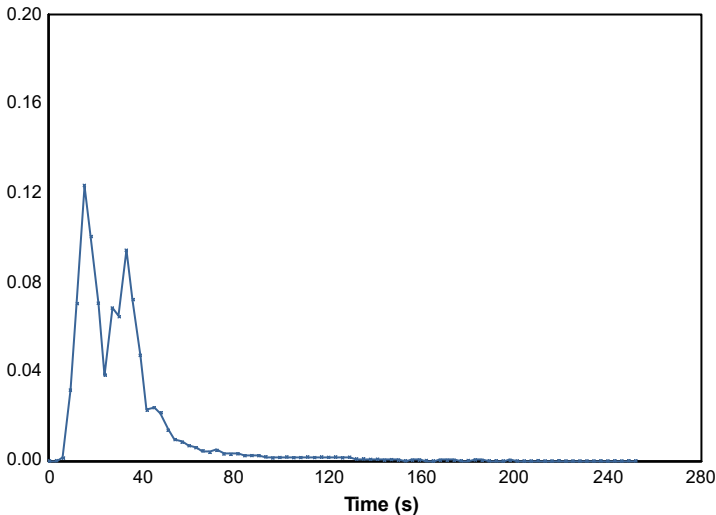
Heat release rate (kW/m²)



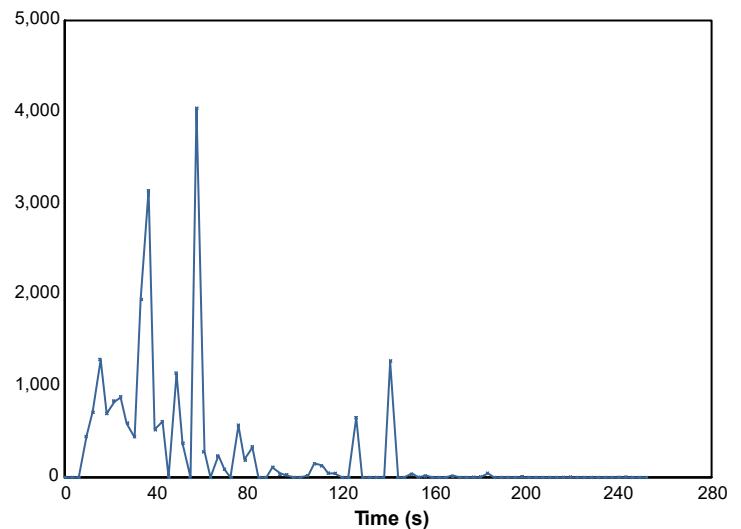
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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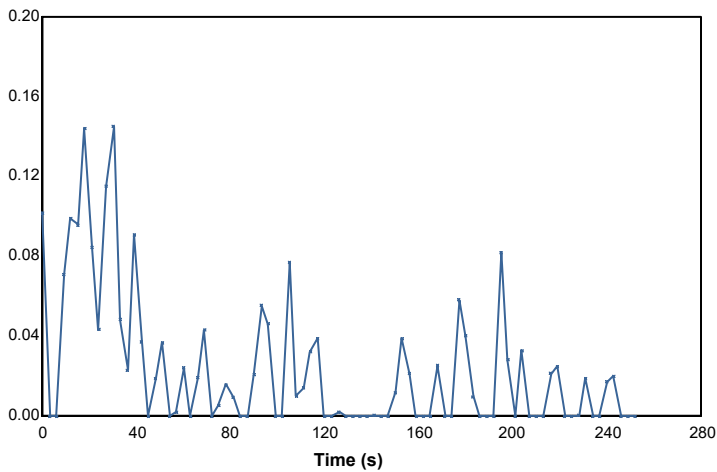
Phone (03) 9371 2400

TEST REPORT

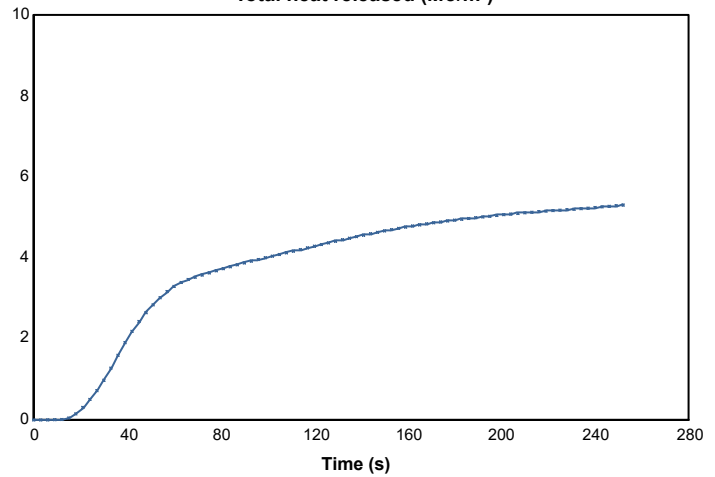
Client : NEWMAT S.A.S.
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FRANCE

Test Number : 21-002643
Issue Date : 28/05/2021
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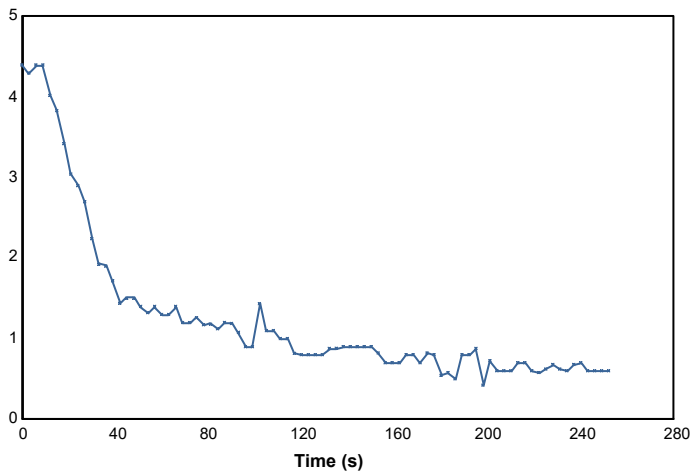
Mass loss rate (g/s)



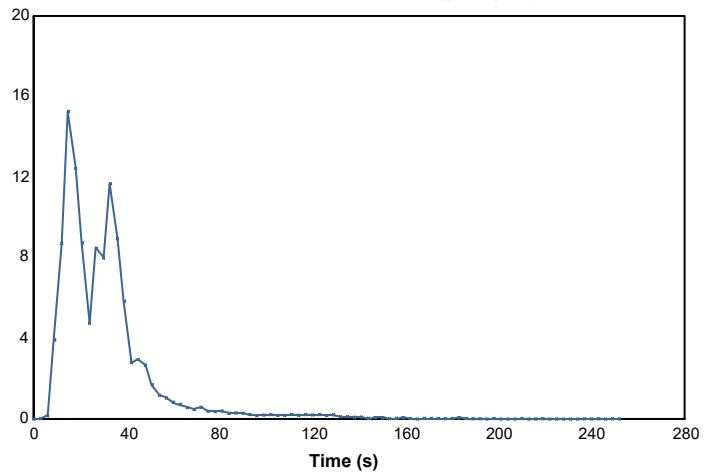
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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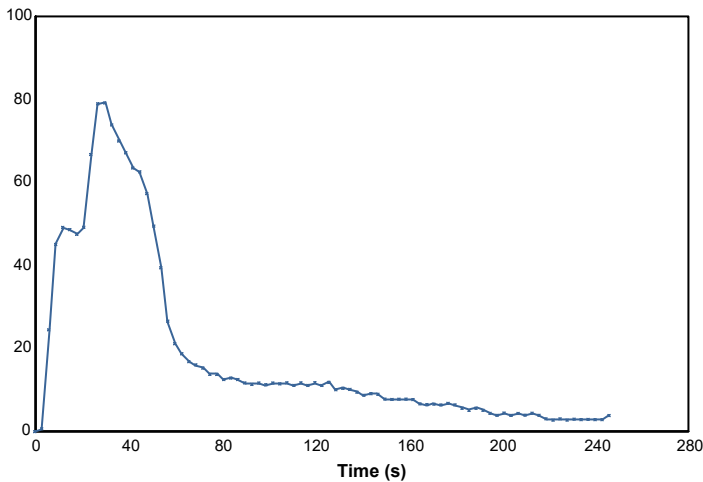
TEST REPORT

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130 / 140 Rue Rene Cauche
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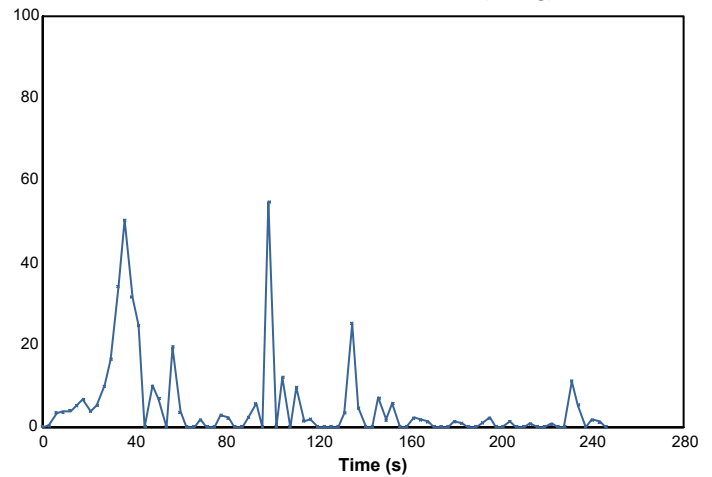
Test Number : 21-002643
Issue Date : 28/05/2021
Print Date : 31/05/2021

Specimen : 6

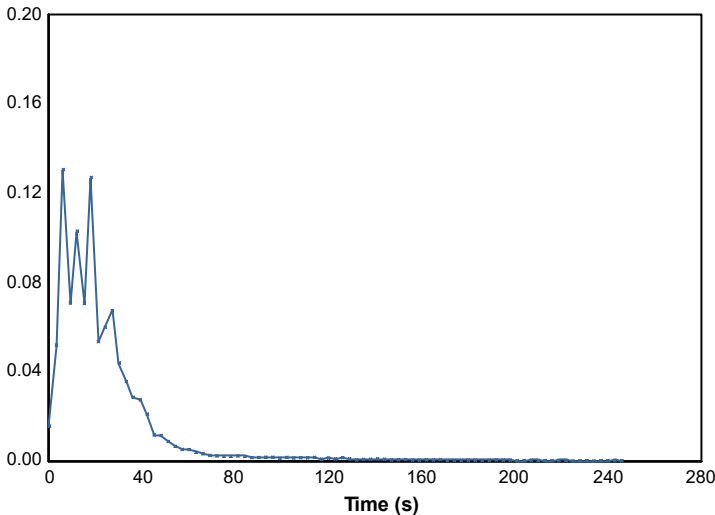
Heat release rate (kW/m²)



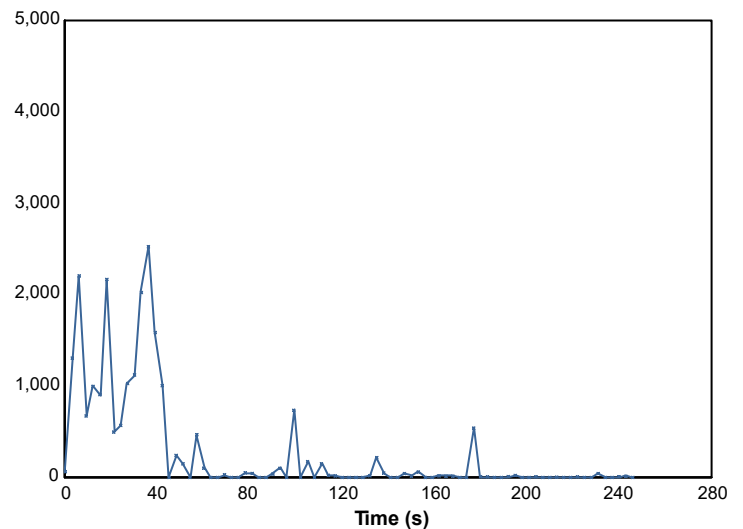
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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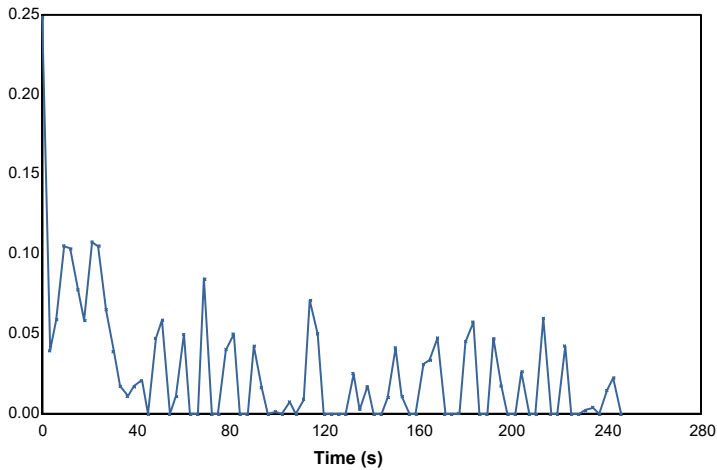
Phone (03) 9371 2400

TEST REPORT

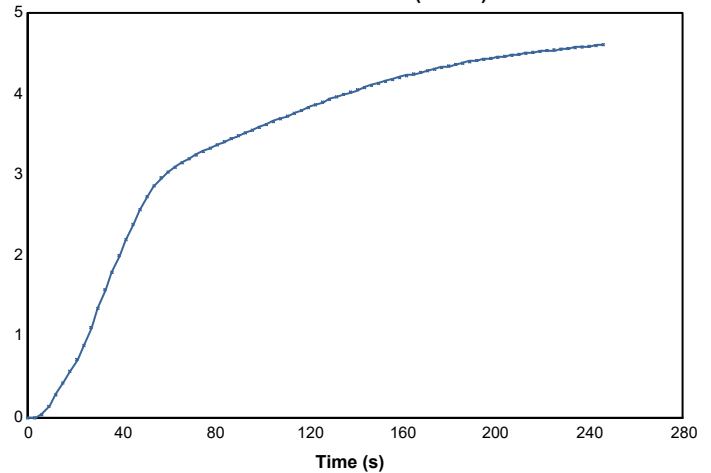
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
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Test Number : 21-002643
Issue Date : 28/05/2021
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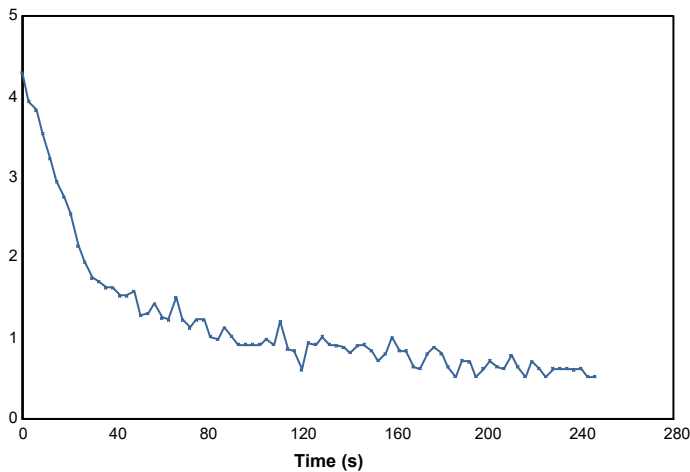
Mass loss rate (g/s)



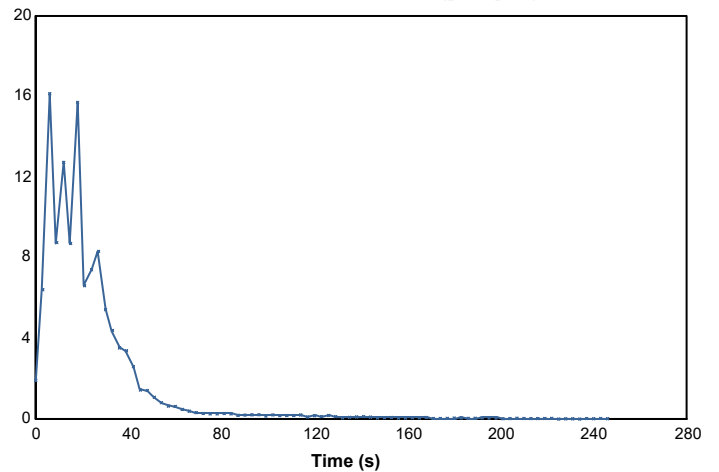
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sample Description Clients Ref : "TX-04 Translucide"
Flexible Vinyl Film
Colour : White
Nominal Mass per Unit Area/Density : 180g/m²
Nominal Thickness : 0.17mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 01-02-2021
Face Tested Non Gloss Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	14.6	15.3	14.8	14.9	kW/m ²
Average Specific extinction area	470.5	389.0	491.2	450.2	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	8	8	8	8	sec
Test duration	190	190	190	190	sec
Peak heat release after ignition	69.2	52.4	81.9	67.8	kW/m ²
Average heat at 60 s	31.0	29.7	30.7	30.5	kW/m ²
Average heat at 180 s	14.8	15.4	15.0	15.1	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	2.7	2.8	2.7	2.7	MJ/m ²

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FRANCE

Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

Average effective heat of combustion	8.7	10.1	9.6	9.5	MJ/kg
Initial thickness	0.17	0.17	0.17	0.2	mm
Initial mass	2.2	2.3	2.4	2.3	g
Mass remaining	0.0	0.0	0.0	0.0	g
Mass percentage pyrolysed	100.0	100.0	100.0	100.0	%
Mass loss	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.7	1.5	1.6	1.6	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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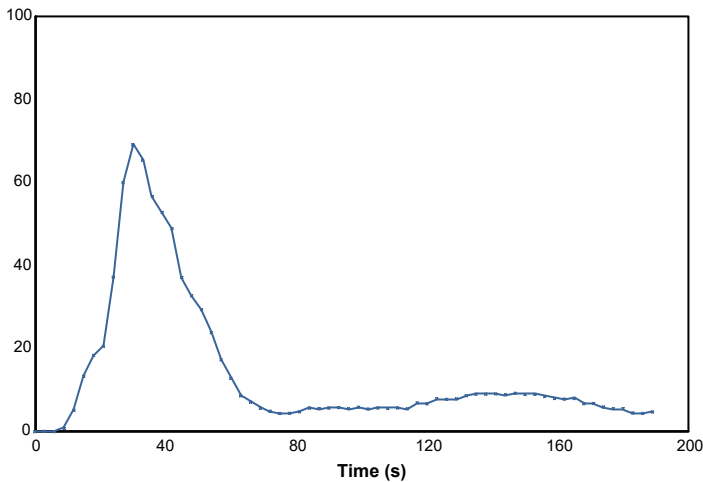
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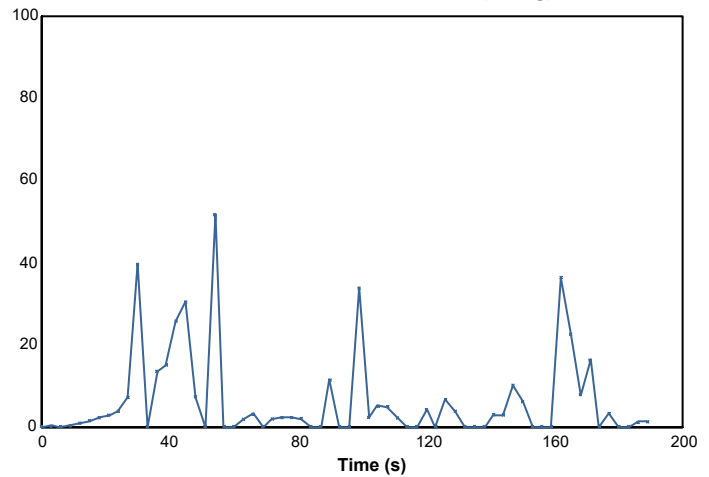
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Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 1

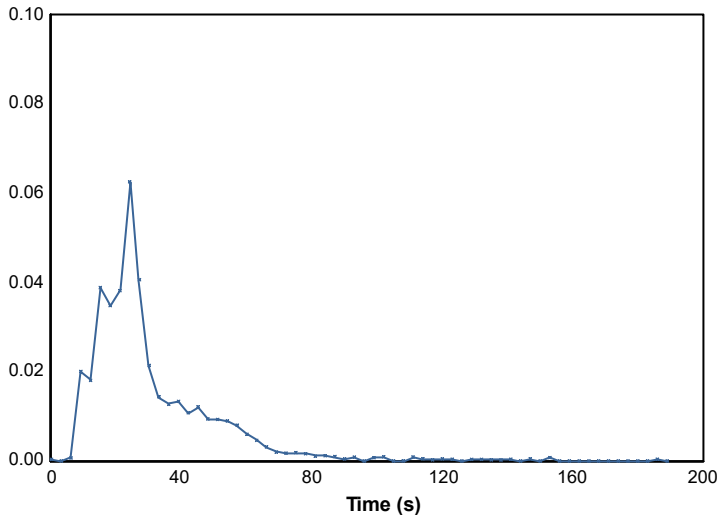
Heat release rate (kW/m²)



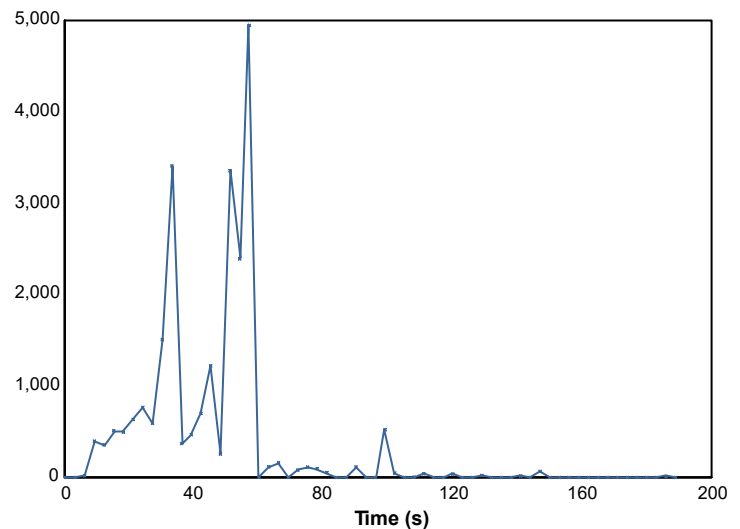
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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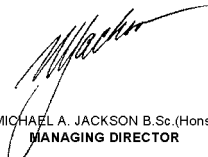
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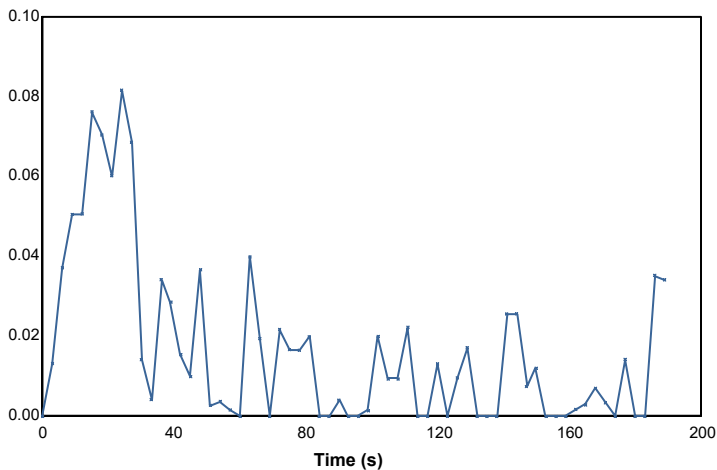
Phone (03) 9371 2400

TEST REPORT

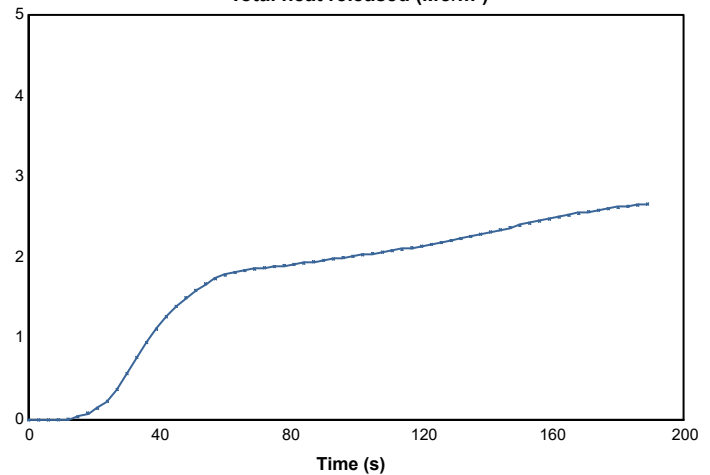
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Test Number : 21-002659
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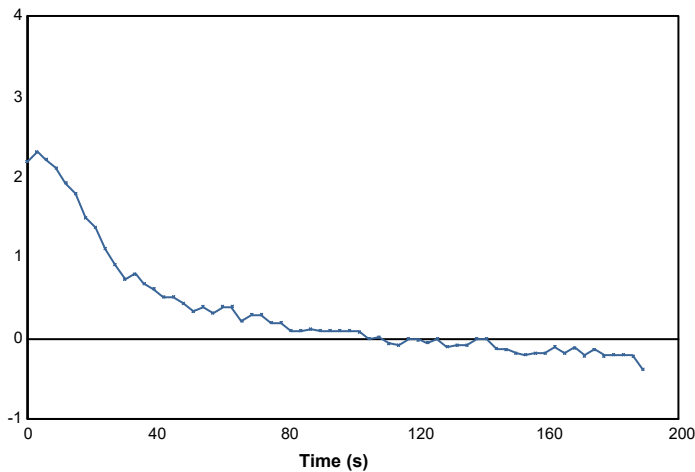
Mass loss rate (g/s)



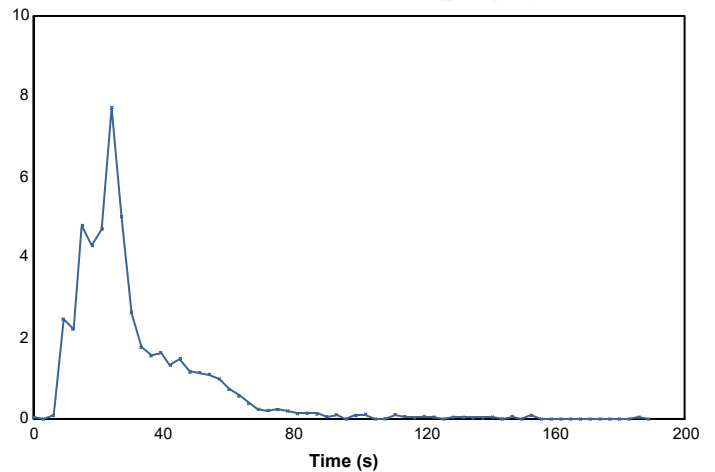
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Chris Campbell
APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

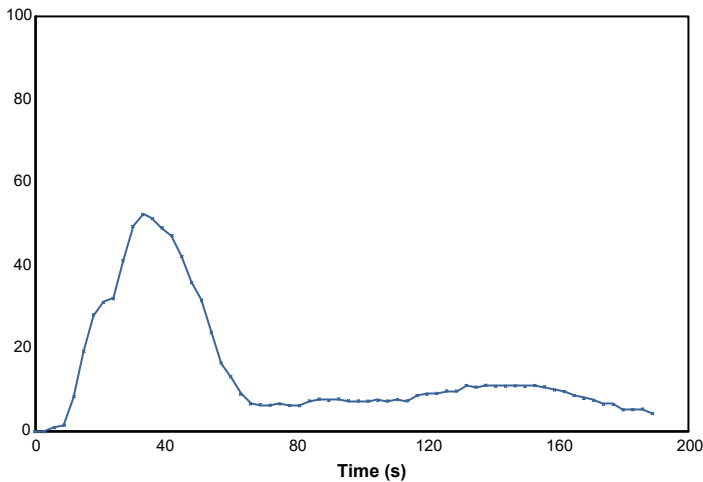
TEST REPORT

Client : NEWMAT S.A.S.
130 / 140 Rue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

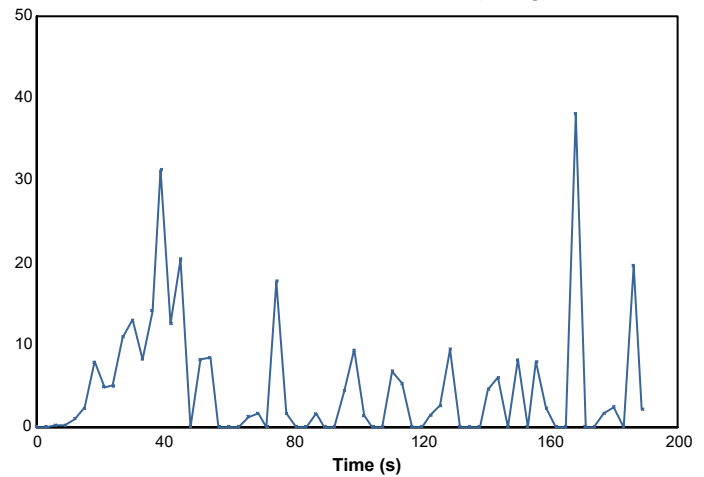
Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 2

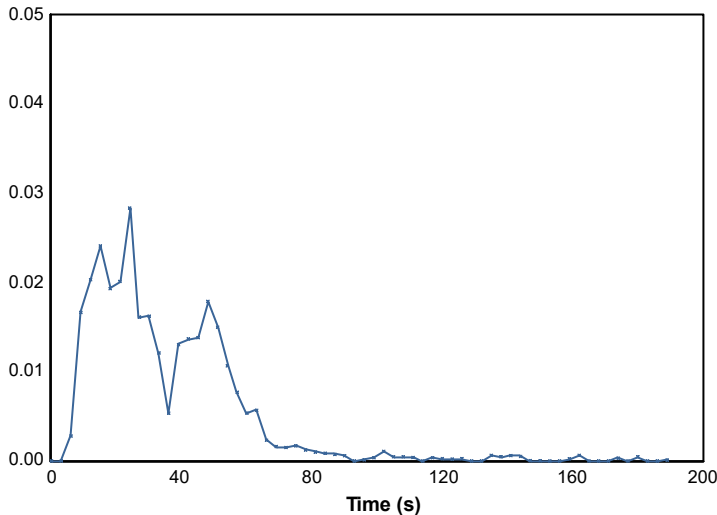
Heat release rate (kW/m²)



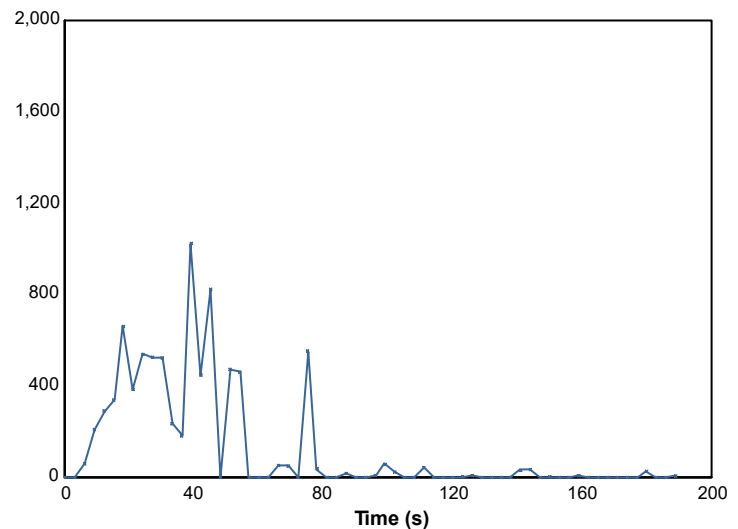
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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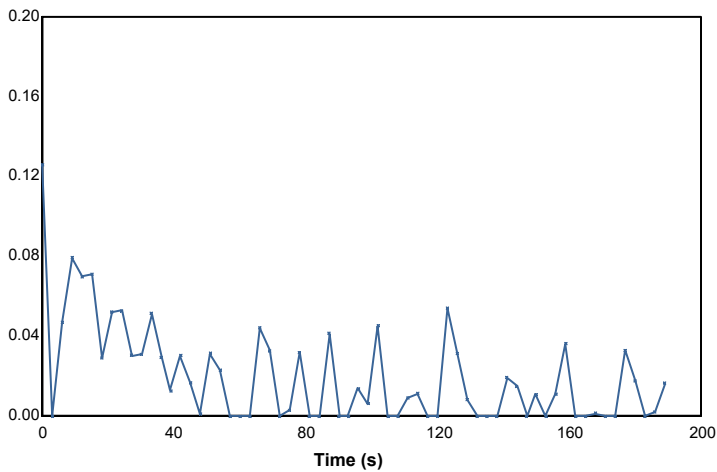
Phone (03) 9371 2400

TEST REPORT

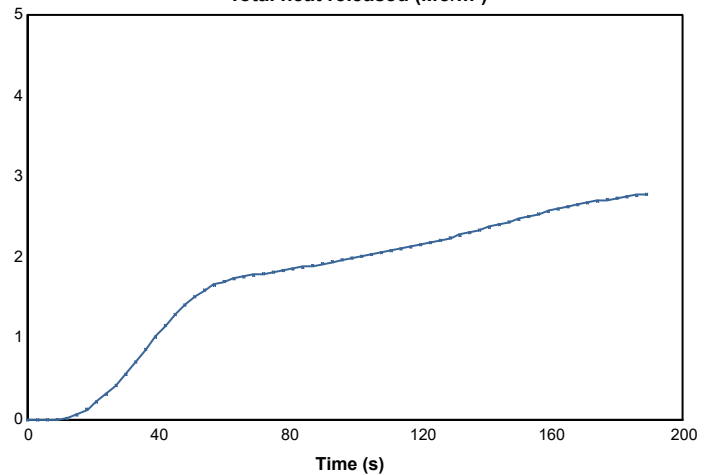
Client : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

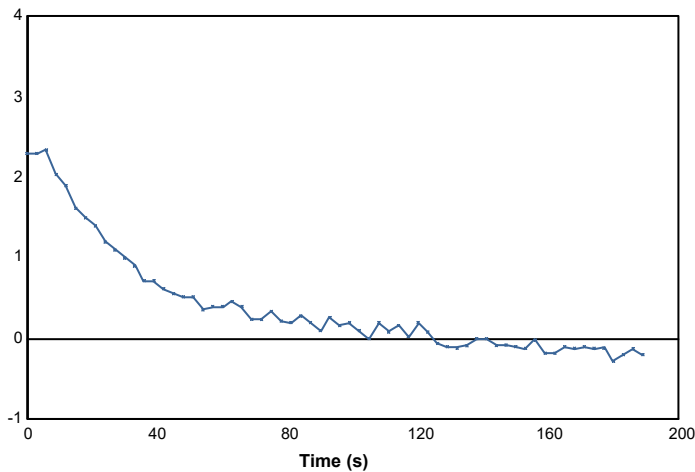
Mass loss rate (g/s)



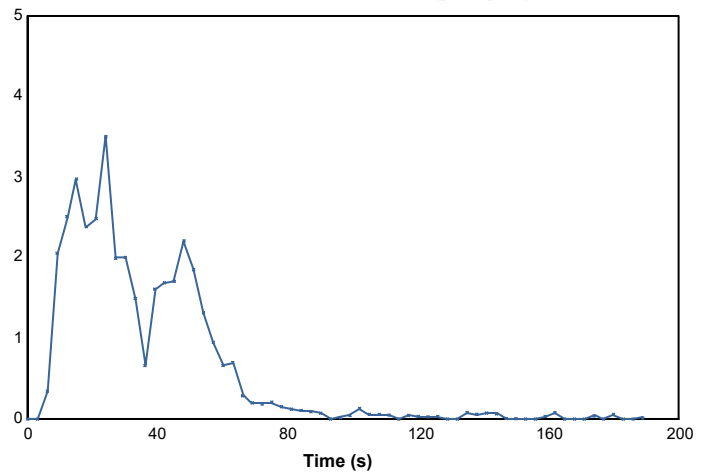
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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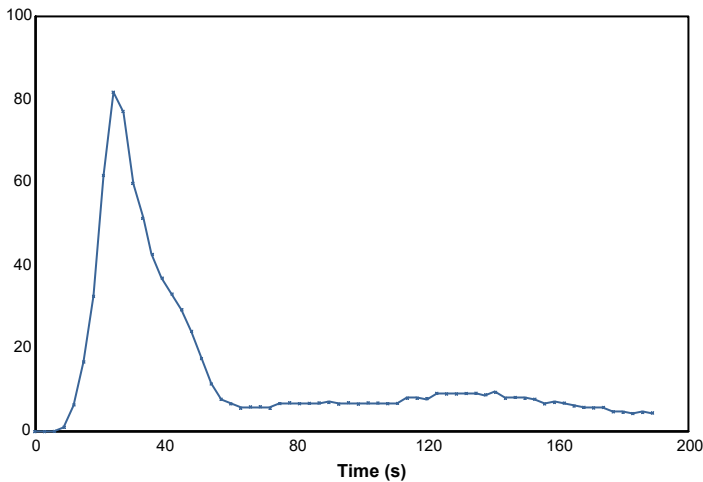
TEST REPORT

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59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

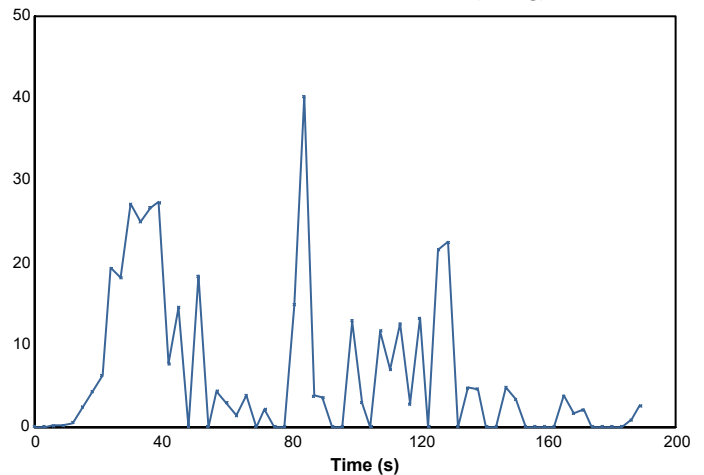
Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

Specimen : 3

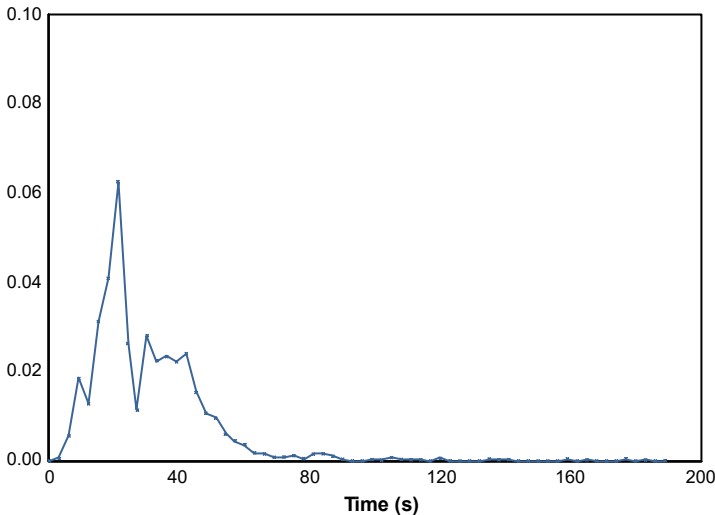
Heat release rate (kW/m²)



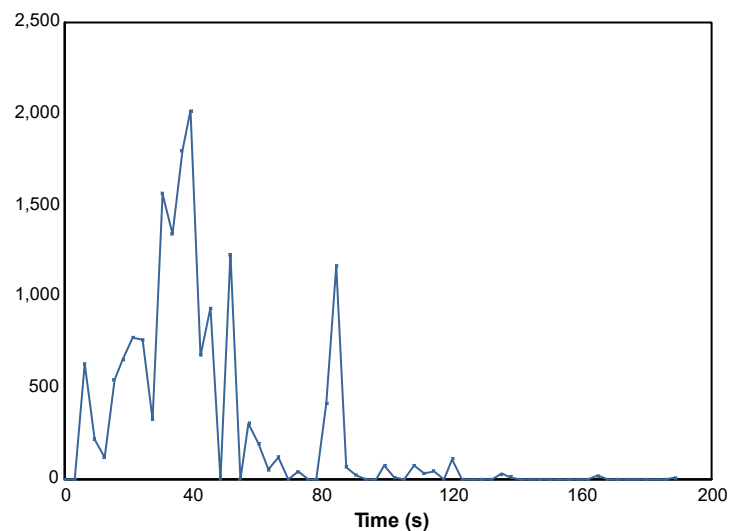
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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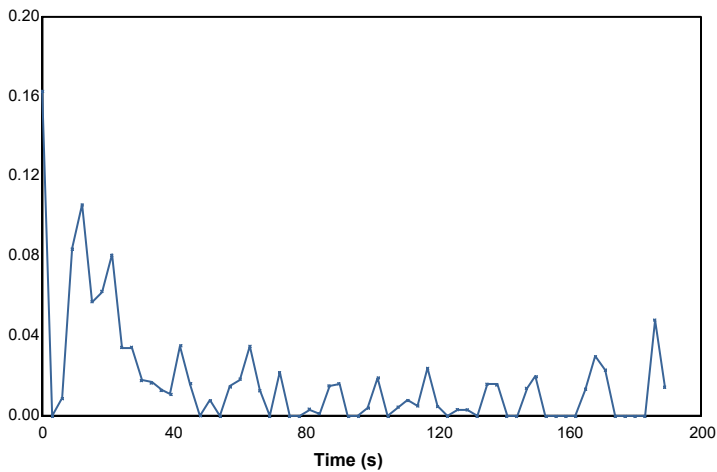
Phone (03) 9371 2400

TEST REPORT

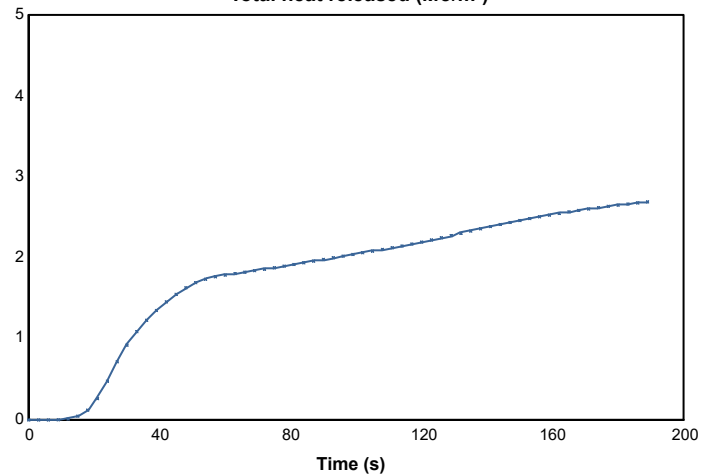
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Test Number : 21-002659
Issue Date : 28/05/2021
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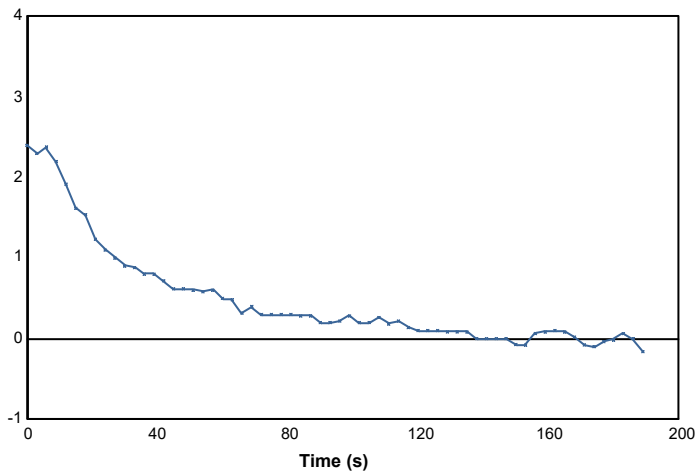
Mass loss rate (g/s)



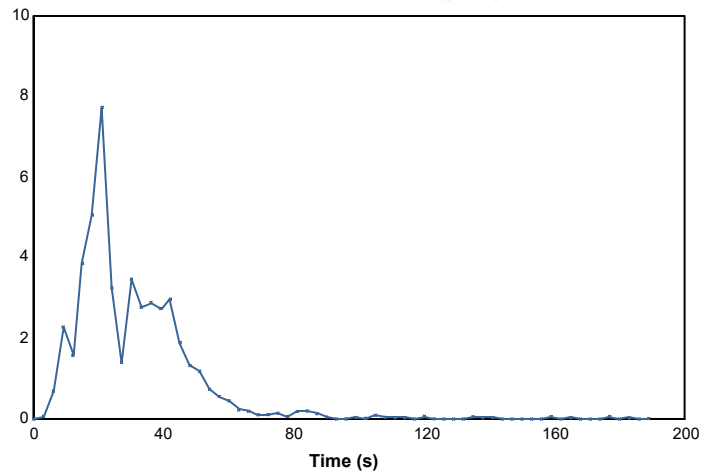
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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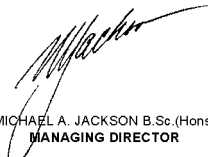
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Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : NEWMAT S.A.S.
130 / 140 Fue Rene Cauche
59139 NOYELLES-LES-SECLIN FRANCE
FRANCE

Test Number : 21-002659
Issue Date : 28/05/2021
Print Date : 28/05/2021

Sponsor Product Clients Ref : "TX-04 Translucide"
Flexible Vinyl Film
Colour : White
Nominal Mass per Unit Area/Density : 180g/m2
Nominal Thickness : 0.17mm

Product Group Number Classification : 1

Average Specific Extinction Area : 450.2 m²/kg



Chris Campbell
Client Relations Manager

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