



SGS U.S. Testing Company Inc.

291 Fairfield Avenue • Fairfield, NJ 07004 • Tel: 973-575-5252 • Fax: 973-575-7175

CLIENT: Newmat USA Ltd.  
25 Surry Hill Place  
Huntington, NY 11743

Test Report No:	158601	Date:	August 3, 2001
-----------------	--------	-------	----------------

The following samples were submitted by the client as: Newmat PVC Rail/Extrusion

DATE OF RECEIPT: July 2, 2001

TESTING PERIOD: July 30 – August 1, 2001

AUTHORIZATION: Client Check No. 1020

TEST REQUESTED: The submitted samples were tested for the following Izod Impact, Tensile Strength & Modulus, Deflection Temperature under Flexural Load and Coefficient of Linear Expansion in accordance with the procedure outlined in ASTM D4216-98.

TEST RESULTS: Continued on the following pages

PREPARED BY

Vincent J. Conforti, Supervisor  
Engineering Physical Properties

rm

SIGNED FOR AND ON BEHALF OF  
SGS U.S. TESTING COMPANY INC.

Frank Savino, Manager  
Materials Evaluation

Page 1 of 5

This report is issued by SGS U.S. Testing Company Inc. under its General Conditions for Testing Services, as printed on reverse side. SGS U.S. Testing's responsibility under this report is limited to proven negligence and will in no case be more than the amount of the testing fees. Except by special arrangement, samples are not retained by SGS U.S. Testing for more than 30 days. The results shown on this test report refer only to the sample(s) tested unless otherwise stated, under the conditions agreed upon. Anyone relying on this report should understand all of the details of the engagement. Neither the name, seals, marks nor insignia of SGS U.S. Testing may be used in any advertising or promotional materials without the prior written approval of SGS U.S. Testing. The test report cannot be reproduced, except in full, without prior written permission of SGS U.S. Testing Company Inc.

Member of the SGS Group (Société Générale de Surveillance)



SGS U.S. Testing Company Inc.

Report No.: 158601  
 Date: 8/03/01  
 Page: 2 of 5

CLIENT: Newmat USA Ltd.

RESULTS:

IZOD IMPACT

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Average</u>
Width, Inches	.077	.076	.077	.083	.077	
Capacity, In.-Lbs.	50	50	50	50	50	
Scale Reading	23	22	20	24.5	23.0	
Actual Ft. Lbs. (→ 12)	1.92	1.83	1.67	2.04	1.92	
Impact Strength, Ft./Lbs. Inch of Notch	24.9	24.1	21.7	24.6	24.9	24.0
Type of Break	H	H	H	H	H	



SGS U.S. Testing Company Inc.

Report No.: 158601  
 Date: 8/03/01  
 Page: 3 of 5

CLIENT: Newmat USA Ltd.

RESULTS:

TENSILE STRENGTH & MODULUS

<u>Specimen</u>	<u>Width, In.</u>	<u>Thickness, In.</u>	<u>PSI Lbs./In.<sup>2</sup></u>	<u>T. Modulus, Psi</u>
1	.250	.083	6940	402000
2	.250	.083	6270	311000
3	.250	.077	6750	297000
4	.250	.083	5690	3060000
5	.250	.078	6100	321000
Avg.			6350	347000

Span = 1"

Crosshead Speed: 0.2 in/min



SGS U.S. Testing Company Inc.

Report No.: 158601  
 Date: 8/03/01  
 Page: 4 of 5

CLIENT: Newmat USA Ltd.

## RESULTS:

**DEFLECTION TEMPERATURE  
 UNDER FLEXURAL LOAD @ 264 PSI**

<u>Specimen</u>	<u>Width, In.</u>	<u>Depth, In.</u>	<u>Total Load</u>	<u>Deflection Temp., °F</u>
1	.078	.515	413	155
2	.083	.510	431	154
Avg.				154.5



SGS U.S. Testing Company Inc.

Report No.: 158601  
 Date: 8/03/01  
 Page: 5 of 5

CLIENT: Newmat USA Ltd.

RESULTS:

COEFFICIENT OF LINEAR EXPANSION

<u>Specimen</u>	<u>Length, In/Cm</u>	<u>-30°C</u>	<u>+30°C</u>	<u>-30°C</u>	<u>Coefficient of Linear Thermal Expansion</u>
1	2.000/5.0	0.000	.0083	0.0000	$6.92 \times 10^{-5}$
2	2.000/5.0	0.000	.0083	0.0000	$6.92 \times 10^{-5}$
Avg.					$6.92 \times 10^{-5}$

\*\*\*\*\*

End of Report