



PAWLING CORPORATION
Standard Products
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Wassaic, NY 12592
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RIGID PVC EXTRUSION PROPERTIES

WALL & CORNER GUARD PROFILES

- ✓ Impact strength and toughness
- ✓ Dimensional stability
- ✓ Flame retardance
- ✓ Chemical resistance
- ✓ Durability
- ✓ Colorability

General Properties

Cell Classification
Specific Gravity
Flammability
Classification

Test Method

ASTM D-1784
ASTM D-792
ASTM D-635
UL-94

Typical Value

16354
1.33
SE
V-0 @ 0.025 in.

Mechanical Properties

Tensile Yield Strength
Tensile Modulus
Tensile Impact
Flexural Strength
Flexural Modulus
Notched Izod Impact Strength
Shore D Hardness
Rockwell R Hardness

ASTM D-638
ASTM D-638
ASTM D-1822
ASTM D-790
ASTM D-790
ASTM D-256
ASTM D-2240
ASTM D-785

6,500 psi
400,000 psi
75 ft -lbs/in²
12,500 psi
400,000 pi
20 ft -lbs./in.
79
108

Thermal Properties

Heat Deflection
Temperature @ 264 psi

ASTM D-648

162 °F

Coefficient of Thermal
Expansion

ASTM D-696

4.0×10^{-5} in./in.-°F



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ARCHITECTURAL PRODUCTS DIVISION

Wall Protection Systems
Entrance Mats And Gratings
Athletic Flooring Systems
Industrial Impact Protection Systems
Parking And Traffic Safety Products

WALL COVERING GENERAL & MECHANICAL PROPERTIES

WC-30 .030 thickness
WC-40 .040 thickness
WC-60 .060 thickness

General Properties	Test Method	Typical Value
Cell Classification	ASTM D-1784	15363
Specific Gravity	ASTM D-792	1.42
Mechanical Properties	Test Method	Typical Value
Tensile Strength, psi	ASTM D-638	6,600
Tensile Modulus, psi	ASTM D-638	400,000
Tensile Impact, ft-lbs/in ²	ASTM D-1822	88
Flexural Strength, psi	ASTM D-790	12,000
Flexural Modulus, psi	ASTM D-790	485,000
Notched Izod Impact, ft-lbs/in	ASTM D-256	15
Shore D Hardness	ASTM D-2240	80
Rockwell R, Hardness	ASTM D-785	112
Thermal Properties	Test Method	Typical Value
Heat Deflection Temperature at 264psi, °F	ASTM D-648	155
UL Flammability Rating	ASTM D-635	UL-94 V-0 @0.030
Coefficient of Thermal Expansion in/in °F x 10 ⁻⁵	ASTM D-696	4.0

IMPORTANT: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. These values and sets of properties are based upon laboratory work with small scale equipment and does not necessarily indicate end product performance. Full scale testing and end product use and performance are the responsibility of the Buyer. Buyer assumes all risk of use; storage and handling of the product. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall be construed as a license to operate under, or recommendation to infringe, any patents. Value, may not be construed as product specifications.



United States Testing Company, Inc.

291 FAIRFIELD AVENUE • FAIRFIELD, NEW JERSEY 07004 • 201-575-5252 • Fax 201-575-8271

REPORT OF TEST

Engineering Services

CLIENT: Pawling Corporation
Borden Lane
P.O. Box 200
Wassaic, NY 12592

NUMBER: 114903

June 7, 1995

SUBJECT: Physical Properties

REFERENCE:

Pawling Corporation, Purchase Order No. 10824.

Sample Received: May 22, 1995

SAMPLE IDENTIFICATION:

One (1) sample of material (10 pieces) was submitted and identified by the Client as follows:

Rigid Vinyl Extruded Profiles used in Pawling Corporation's Pro-Tek Wall and Corner Guards & Hand Rail Systems

TEST PERFORMED:

The submitted sample was tested for Impact Strength in accordance with the procedures outlined in ASTM Test Method D-256-93a, methods A (Izod) and B (Charpy).

Testing Supervised by:

Frank Savino

Frank Savino, Manager
Materials Engineering Section

SIGNED FOR THE COMPANY

By

Frank Pepe
Frank Pepe
Vice President

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of 2
njp



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United States Testing Company, Inc.
CLIENT: Pawling Corporation

NUMBER: 114903

TEST RESULTS

<u>Method</u>	<u>Det.</u>	<u>Width, IN</u>	<u>Apparent Impact Strength, Ft-Lbs/Inch of Notch</u>	<u>Type of Break</u>
A, Izod Type	1	0.111	25.2	Non-Break
	2	0.111	25.5	Non-Break
	3	0.111	24.8	Non-Break
	4	0.111	26.7	Non-Break
	5	0.111	24.4	Non-Break
	Avg.		25.3	
<hr/>				
B, Charpy Type	1	0.111	24.8	Twisted(*)
	2	0.111	25.5	Twisted(*)
	3	0.111	27.8	Non-Break
	4	0.111	24.8	Twisted(*)
	5	0.111	27.0	Non-Break
	Avg.		26.0	

*This specimen twisted and bent. It cannot be classified by this method.

NOTES:
1) Scale capacity was 100 in.-lbs.
2) Test date was June 5, 1995.



ASTM D635-03
Rate of Burning and/or Extent and Time of Burning of Plastics
in a Horizontal Position

Client: Pawling Corporation
32 Nelson Hill Road
Wassaic, NY 12592

Report No.: 11460-123271

Received Date: December 30, 2004

Test Date: January 6, 2005

Report Date: January 7, 2005

Specimen ID: 1/2 in. x 5 in. Rigid PVC, 0.10 in \pm 0.01 in thick

Sample Description

Rigid PVC Extruded profiles used in wall guard, corner guard, and handrail systems. Trademark Pro-tek®

The test specimen identification is as provided by the client and Omega Point Laboratories, Inc. accepts no responsibility for any inaccuracies therein. Omega Point did not select the specimen and has not verified the composition, manufacturing techniques or quality assurance procedures.

Sample Dimensions: 126mm x 12.6mm x 2.56mm

Sample Preparation: Tested as received.

Sample Conditioning: 73 \pm 5°F and 50 \pm 5% R.H.

Environmental Conditions: 71°F and 48% r.h.

This Test Witnessed by: N/A

"This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use."

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Category Designation

The behavior of specimens shall be classified HB (HB = horizontal burning) if,
a.) There is no visible signs of combustion after the source is removed, or b.) The flame front does not pass the 25 mm reference mark, or c.) The flame front passes the 25 mm reference mark but does not reach the 100 mm reference mark, or d.) The flame front reaches the 100 mm reference mark and the linear burning rate does not exceed 40 mm/min for specimens having a thickness between 3 and 13 mm or 75 mm/min for specimens having a thickness less than 3 mm.

Summary of Test Method

A bar of the material to be tested is supported horizontally at one end. The free end is exposed to a specified methane gas flame for 30s. Elapsed time (t) and Burned length (L) are measured and reported if the specimen burns between 25mm and 100mm. An average burning rate is reported for a material if it burns to the 100-mm mark from the ignited end.

TEST RESULTS

Specimen	Did Flame Reach 25mm (Y/N)	Did Flame Reach 100mm (Y/N)	Elapsed Time* (sec)	Burned Length* (mm)
1	No	No	N/A	N/A
2	No	No	N/A	N/A
3	No	No	N/A	N/A
4	No	No	N/A	N/A
5	No	No	N/A	N/A
6	No	No	N/A	N/A
7	No	No	N/A	N/A
8	No	No	N/A	N/A
9	No	No	N/A	N/A
10	No	No	N/A	N/A
Average			N/A	N/A

* This data is not available because the flame did not reach the 25mm reference mark.



Conclusion:

This specimen meets the HB classification requirements.

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This report consists of three pages.

Servando Romo

Servando Romo
Manager, Small Scale Testing

1/7/05
Date

Reviewed and approved:

William E. Fitch

William E. Fitch, P.E. No. 55296

1/7/05
Date





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Division 10

2001

Category # 10260

Listing # 15309-1

PAWLING CORPORATION
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PAWLING, NEW YORK 12564-1188
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Door, Wall & Corner Guards
PVC Wall Coverings
PRO-TEK® PVC Wall Coverings

An extruded or formed PVC compound with a max. thickness of 0.110 in.

Tests

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