Geon™ Vinyl Rigid Extrusion 78761

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant		
Uses	• Rods		
Agency Ratings	• NSF STD-14	• NSF STD-61	• NSF Type I
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	ASTM D792
PVC Cell Classification	12454	12454	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	410000 psi	2830 MPa	ASTM D638
Tensile Strength [2] (Yield)	7300 psi	50.3 MPa	ASTM D638
Flexural Modulus	420000 psi	2900 MPa	ASTM D790
Flexural Strength	15000 psi	103 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.0 ft·lb/in	53 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.90 ft·lb/in	48 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.40 in·lb/mil	62.3 J/cm	
73°F (23°C) [4]	3.27 in·lb/mil	145 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D, 15 sec)	80	80	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	158 °F	70.0 °C	
CLTE - Flow	2.9E-5 in/in/°F	5.2E-5 cm/cm/°C	ASTM D696
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.08 in (1.9 mm), ALL)	V-0	V-0	UL 94
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Ease of Sizing	Good	Good	

Note: NSF listings are obtained on specific colors. Contact PolyOne for the latest listing of approved colors for this product.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

[3] Procedure A, C.125 Dart

[4] Procedure B, C.125 Dart

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