



Geon™ Vinyl Rigid Extrusion L8761

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
PVC Cell Classification	12564	12564	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	444000 psi	3060 MPa	ASTM D638
Tensile Strength ² (Yield)	8030 psi	55.4 MPa	ASTM D638
Flexural Modulus	496000 psi	3420 MPa	ASTM D790
Flexural Strength	14300 psi	98.6 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	0.90 ft·lb/in	48 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	1.43 in·lb/mil	63.6 J/cm	
73°F (23°C) ⁴	1.43 in·lb/mil	63.6 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	77	77	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)	161 °F	71.7 °C	
CLTE - Flow	3.3E-5 in/in/°F	5.9E-5 cm/cm/°C	ASTM D696
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

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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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