



Geon™ Vinyl Rigid Extrusion L8801

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.42	1.42	ASTM D792
PVC Cell Classification	13463	13463	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	441000 psi	3040 MPa	ASTM D638
Tensile Strength ² (Yield)	7330 psi	50.5 MPa	ASTM D638
Flexural Modulus	465000 psi	3210 MPa	ASTM D790
Flexural Strength	13300 psi	91.5 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.119 in (3.02 mm)	1.2 ft-lb/in	64 J/m	ASTM D256
Drop Impact Resistance 73°F (23°C) ³	1.96 in-lb/mil	87.4 J/cm	ASTM D4226
73°F (23°C) ⁴	2.00 in-lb/mil	88.8 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 66 psi (0.45 MPa), Unannealed, 0.120 in (3.05 mm)	159 °F	70.4 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.124 in (3.15 mm)	160 °F	71.3 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.132 in (3.35 mm)	147 °F	63.8 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.120 in (3.04 mm)	155 °F	68.4 °C	ASTM D648
CLTE - Flow	3.3E-5 in/in/°F	6.0E-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

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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