



Geon™ Vinyl Rigid Extrusion L0152

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance		
Uses	• Profiles		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Profile Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.31	1.31	ASTM D792
PVC Cell Classification	16343	16343	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	378000 psi	2610 MPa	ASTM D638
Tensile Strength ² (Yield)	6370 psi	43.9 MPa	ASTM D638
Flexural Modulus	408000 psi	2810 MPa	ASTM D790
Flexural Strength	11700 psi	80.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	18 ft·lb/in	940 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	11 ft·lb/in	600 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	15 ft·lb/in	780 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.25 in·lb/mil	55.6 J/cm	
73°F (23°C) ⁴	4.47 in·lb/mil	199 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	83	83	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)	156 °F	68.9 °C	
CLTE - Flow	4.0E-5 in/in/°F	7.2E-5 cm/cm/°C	ASTM D696
Additional Information			

Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

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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