



Geon™ Vinyl Rigid Extrusion 87566

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	370000 psi	2550 MPa	ASTM D638
Tensile Strength ² (Yield)	7200 psi	49.6 MPa	ASTM D638
Flexural Modulus	421000 psi	2900 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.5 ft-lb/in	130 J/m	ASTM D256A
Drop Impact Resistance	1.15 in-lb/mil	51.4 J/cm	ASTM D4226
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	81	81	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ³	160 °F	71.1 °C	ASTM D648A
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁴	166 °F	74.3 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Injection Molded ³	156 °F	69.1 °C	ASTM D648A
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Injection Molded ⁴	162 °F	72.2 °C	
CLTE - Flow -22 to 86°F (-30 to 30°C), 0.125 in (3.18 mm)	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	ASTM D696

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 Annealed at 122 degree F (50 degree C)

⁴ Annealed at 140 degree F (60 degree C)



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