



Geon™ Vinyl Rigid Molding M7500

Polyvinyl Chloride Alloy

Key Characteristics

Product Description	
Custom Molding	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• General Purpose • High Flow • Medium Impact Resistance
Uses	• Construction Applications • General Purpose • Outdoor Applications
Appearance	• Translucent
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.27	1.27	ASTM D792
Spiral Flow	41.0 in	104 cm	
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²			ASTM D638
73°F (23°C), 0.125 in (3.18 mm)	277000 psi	1910 MPa	
Tensile Strength ²			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	5800 psi	40.0 MPa	
Tensile Elongation ²			ASTM D638
Break, 73°F (23°C), 0.125 in (3.18 mm)	35 %	35 %	
Flexural Modulus			ASTM D790
73°F (23°C), 0.125 in (3.18 mm)	278000 psi	1920 MPa	
Flexural Strength			ASTM D790
73°F (23°C), 0.125 in (3.18 mm)	8300 psi	57.2 MPa	
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	4.0 ft-lb/in	210 J/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	80	80	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	139 °F	59.5 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	154 °F	67.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	125 °F	51.6 °C	

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Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	148 °F	64.4 °C	ASTM D648

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 400 °F	199 to 204 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)

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