



Geon™ Vinyl Rigid Molding M3400

Rigid Polyvinyl Chloride

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• High Impact Resistance • Medium Flow
Uses	• Electrical/Electronic Applications
Appearance	• Opaque
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.36	1.36	ASTM D792
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	405000 psi	2790 MPa	ASTM D638
Tensile Strength ² (Yield)	6190 psi	42.7 MPa	ASTM D638
Tensile Elongation ² (Break)	26 %	26 %	ASTM D638
Flexural Modulus	380000 psi	2620 MPa	ASTM D790
Flexural Strength	10000 psi	68.9 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
0°F (-18°C), 0.125 in (3.18 mm), Injection Molded	2.9 ft-lb/in	150 J/m	
32°F (0°C), 0.125 in (3.18 mm), Injection Molded	11 ft-lb/in	590 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	19 ft-lb/in	1000 J/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	82	82	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)	158 °F	70.0 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	140 °F	60.0 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (ALL)	• V-0 • 5VA	• V-0 • 5VA	UL 94
Processing Information			
Injection	Typical Value (English)	Typical Value (SI)	
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C	

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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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