



Geon™ Vinyl Rigid Molding M3690

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.33	1.33	ASTM D792
Spiral Flow	33.0 in	83.8 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	363000 psi	2500 MPa	ASTM D638
Tensile Strength ² (Yield)	5900 psi	40.7 MPa	ASTM D638
Tensile Elongation ² (Break)	20 %	20 %	ASTM D638
Flexural Modulus	276000 psi	1900 MPa	ASTM D790
Flexural Strength	8400 psi	57.9 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	17 ft-lb/in	900 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	154 °F	67.8 °C	ASTM D648
RTI Elec	194 °F	90.0 °C	UL 746
RTI Imp	185 °F	85.0 °C	UL 746
RTI Str	194 °F	90.0 °C	UL 746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm), ALL COLOR	• V-0 • 5VA	• V-0 • 5VA	
0.12 in (3.0 mm), ALL COLOR	• V-0 • 5VA	• V-0 • 5VA	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °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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