



# Geon™ Vinyl Rigid Molding M4950

## Rigid Polyvinyl Chloride

### Key Characteristics

Product Description	
THIS PRODUCT IS TO BE USED FOR SHORT TERM (3 YEARS) OUTDOOR APPLICATIONS.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• High Flow
Uses	• Outdoor Applications
Appearance	• Clear/Transparent
Forms	• Pellets

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.34	1.34	ASTM D792
Spiral Flow	29.0 in	73.7 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 <sup>2</sup>	430000 psi	2960 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	8100 psi	55.8 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	30 %	30 %	ASTM D638
Flexural Modulus	430000 psi	2960 MPa	ASTM D790
Flexural Strength	13000 psi	89.6 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	1.0 ft·lb/in	53 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	85	85	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.250 in (6.35 mm)	154 °F	68.0 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.250 in (6.35 mm)	156 °F	69.0 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	151 °F	66.0 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.250 in (6.35 mm)	145 °F	63.0 °C	ASTM D648

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.0591 in (1.50 mm), TP	V-0	V-0	
0.0748 in (1.90 mm), TP	5VB	5VB	
0.118 in (3.00 mm), TP	5VA	5VA	
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance <sup>3</sup> (125 mil (3180 μm))	70.0 %	70.0 %	ASTM D1003
Haze (125 mil (3180 μm))	8.0 %	8.0 %	ASTM D1003
Additional Information			
XENON ARC WEATHEROMETER (delta E = 2.1, CIE Lab, 2000 hrs., SAE J1960)			

**Processing Information**

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

**Notes**

- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> Type I, 2.0 in/min (51 mm/min)
- <sup>3</sup> CIE Illuminant C

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