

Geon™ Vinyl Rigid Molding M4950

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

This product is used for short-term (3 years) outdoor use.

General Information			
UL YellowCard	E41877-234295		
Features	High liquidity		
Uses	Outdoor application		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Spiral Flow	73.7	cm	
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2960	MPa	ASTM D638
Tensile Strength ² (Yield)	55.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	30	%	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	53	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.35mm	68.0	°C	ASTM D648
0.45 MPa, annealed, 6.35mm	69.0	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	66.0	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	63.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, TP	V-0		UL 94
1.90 mm, TP	5VB		UL 94
3.00 mm, TP	5VA		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (3180 µm)	70.0	%	ASTM D1003

Haze (3180 μm)	8.0	%	ASTM D1003
Additional Information			
XENON ARC WEATHEROMETER(delta E = 2.1,CIE Lab,2000 hrs.,SAE J1960)			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 204	°C	
NOTE			
1.	Type 1, 51mm/min		
2.	Type 1, 51mm/min		
3.	Type 1, 51mm/min		
4.	CIE light source c		

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