

Geon™ Vinyl Rigid Molding M3000

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M3000 is a Rigid Polyvinyl Chloride product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Rigid Molding M3000 include plumbing/piping/potable water and engineering/industrial parts. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41877-234272		
Features	Medium Flow		
Uses	Fittings		
Agency Ratings	NSF 14		
	NSF 61		
	NSF Type I		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Spiral Flow	63.5	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
PVC Cell Classification	12454		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3100	MPa	ASTM D638
Tensile Strength ² (Yield)	51.0	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	91.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
23°C, 3.18 mm, Injection Molded	53	J/m	
23°C, 6.35 mm, Injection Molded	37	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	72.8	°C	
1.8 MPa, Unannealed, 6.35 mm	72.2	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm, ALL)	V-0		UL 94
Injection	Nominal Value	Unit	

Processing (Melt) Temp	199 to 210	°C
NOTE		
1.	Type I, 51 mm/min	
2.	Type I, 51 mm/min	

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