

Geon™ Vinyl Rigid Molding M5105

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M5100 is a Rigid Polyvinyl Chloride product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Geon™ Vinyl Rigid Molding M5100 include plumbing/piping/potable water and outdoor applications.

General Information			
Features	Medium Flow		
Uses	Fluid Handling		
	Outdoor Applications		
Agency Ratings	NSF 61		
	NSF Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Spiral Flow	55.9	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2960	MPa	ASTM D638
Tensile Strength ² (Yield)	50.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	25	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18 mm, Injection Molded	27	J/m	
23°C, 3.18 mm, Injection Molded	110	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.35 mm	67.2	°C	
1.8 MPa, Annealed, 6.35 mm	72.2	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 210	°C	
NOTE			
1.	51 mm/min		

2.	51 mm/min
3.	51 mm/min

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