

Geon™ Vinyl Rigid Molding M5100

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™Vinyl Rigid Molding M5100 is a rigid polyvinyl chloride product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Geon™Vinyl Rigid Molding M5100 applications include water pipes/pipes/drinking water and outdoor applications.

General Information			
UL YellowCard	E41877-100156292		
Features	Medium liquidity		
Uses	Outdoor application		
	Liquid treatment		
Agency Ratings	NSF 61		
	NSF Not Rated		
Forms	Particle		
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 - 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, 3.18mm, injection molding	27	J/m	ASTM D256A
23°C, 3.18mm, injection molding	110	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, unannealed, 6.35mm	67.2	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	72.2	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 - 210	°C	
NOTE			

1.	51 mm/min
2.	51 mm/min
3.	51 mm/min

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Recommended distributors for this material

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