

Geon™ Vinyl Rigid Molding M3005

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M3005 is a Rigid Polyvinyl Chloride product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Typical application: Plumbing/Piping/Potable Water. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41877-234273		
Features	Low Smoke Emission		
	Medium Flow		
Agency Ratings	NSF 14		
	NSF Type I		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Spiral Flow	61.0	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
PVC Cell Classification	11432		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 10 sec)	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 - Across Flow			ASTM D256A
23°C, 3.18 mm, Compression Molded	53	J/m	
23°C, 6.35 mm, Compression 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 (1.50 mm, ALL)	V-0	UL 94	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	193 to 202	°C	

NOTE

- | | |
|----|-------------------|
| 1. | Type I, 51 mm/min |
| 2. | Type I, 51 mm/min |

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