

Geon™ Vinyl Rigid Molding M4300

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M4300 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.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41877-234289		
Features	General Purpose		
	High Impact Resistance		
	Medium Flow		
Uses	Fluid Handling		
	General Purpose		
Agency Ratings	NSF 61		
	NSF Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Spiral Flow	58.4	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	2830	MPa	ASTM D638
Tensile Strength ² (Yield)	54.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	30	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18 mm, Injection Molded	53	J/m	
23°C, 3.18 mm, Injection Molded	850	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	70.0	°C	
0.45 MPa, Annealed, 6.35 mm	76.1	°C	
1.8 MPa, Unannealed, 6.35 mm	67.8	°C	
1.8 MPa, Annealed, 6.35 mm	72.8	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm, ALL	V-0		
1.91 mm, ALL	5VA		
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (3180 μm)	78.0	%	ASTM D1003
Haze (3180 μm)	4.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 204	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	CIE Illuminant C		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

