

Geon™ Vinyl Rigid Molding M4110

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M4110 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 M4110 include plumbing/piping/potable water and food contact applications.

Characteristics include:

- Flame Rated
- Food Contact Acceptable
- Impact Resistant

General Information			
UL YellowCard	E41877-234288		
Features	Food Contact Acceptable		
	General Purpose		
	Medium Flow		
	Medium Impact Resistance		
Uses	Fluid Handling		
	General Purpose		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	NSF 14		
	NSF 61		
	NSF Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	63.5	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
PVC Cell Classification	14454		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2830	MPa	ASTM D638
Tensile Strength ² (Yield)	53.1	MPa	ASTM D638
Tensile Elongation ³ (Break)	30	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	86.2	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	320	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	72.8	°C	
1.8 MPa, Unannealed, 6.35 mm	67.8	°C	
1.8 MPa, Annealed, 6.35 mm	71.1	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ALL)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance ⁴ (3180 μm)	80.0	%	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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