

Geon™ Vinyl Rigid Molding M3800

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M3800 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 M3800 include plumbing/piping/potable water, appliances, business/office goods, construction applications and electrical/electronic applications.

Characteristics include:

- Flame Rated
- RoHS Compliant
- High Flow
- Impact Resistant

General Information			
UL YellowCard	E41877-234283		
Features	General Purpose		
	High Flow		
	High Impact Resistance		
Uses	Appliances		
	Business Equipment		
	Construction Applications		
	Electrical/Electronic Applications		
	General Purpose		
	Telecommunications		
Agency Ratings	NSF 51		
	NSF 61		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	112	cm	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2280	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790

Flexural Strength	66.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18 mm, Injection Molded	110	J/m	
0°C, 3.18 mm, Injection Molded	270	J/m	
23°C, 3.18 mm, Injection Molded	640	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	72.2	°C	
0.45 MPa, Annealed, 6.35 mm	75.0	°C	
1.8 MPa, Unannealed, 6.35 mm	68.9	°C	
1.8 MPa, Annealed, 6.35 mm	72.8	°C	
RTI Elec	90.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	90.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.40 mm, ALL	V-0		
1.60 mm, ALL	5VA		
Additional Information	Nominal Value		
	5VA		
CSA Flammability ⁴ (1.60 mm)	V-0		
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 210	°C	
NOTE			
1.	Type I, 51 mm/min		
2.	Type I, 51 mm/min		
3.	Type I, 51 mm/min		
4.	All Colors		

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