

Geon™ Vinyl Rigid Molding M3880

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M3880 is a rigid PVC product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Geon™ The application fields of Vinyl Rigid Molding M3880 include electrical appliances and water pipes/pipes/drinking water.

Features include:

flame retardant/rated flame

high liquidity

Impact resistance

General Information			
Features	Impact resistance, high		
	High liquidity		
Uses	Electrical appliances		
Agency Ratings	NSF 51		
Appearance	Opacity		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Spiral Flow	102	cm	
Molding Shrinkage - Flow	0.20 - 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	2590	MPa	ASTM D638
Tensile Strength ² (Yield)	41.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
-18°C, 3.18mm, injection molding	160	J/m	ASTM D256A
0°C, 3.18mm, injection molding	210	J/m	ASTM D256A
23°C, 3.18mm, injection molding	800	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	72.2	°C	ASTM D648
0.45 MPa, annealed, 3.18mm	70.0	°C	ASTM D648
1.8 MPa, unannealed, 6.35mm	68.9	°C	ASTM D648
1.8 MPa, annealed, 6.35mm	72.8	°C	ASTM D648

RTI Elec	90.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI	90.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.4 mm, ALL	V-0	UL 94	
1.6 mm, ALL	5VA	UL 94	
Additional Information	Nominal Value		
	V-0		

CSA Flammability ⁴ (1.60 mm) 5VA

Injection	Nominal Value	Unit
Processing (Melt) Temp	199 - 210	°C

NOTE

1. Type 1, 51mm/min
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4. All Colors

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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

