

Geon™ Vinyl Rigid Molding M4810

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon™ Vinyl Rigid Molding M4810 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 M4810 include food contact applications and medical/healthcare.

Characteristics include:

- Flame Rated
- Food Contact Acceptable
- High Flow
- Impact Resistant

General Information			
UL YellowCard	E41877-234291		
Features	Food Contact Acceptable		
	General Purpose		
	High Flow		
	High Impact Resistance		
Uses	General Purpose		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	USP Class VI		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2410	MPa	ASTM D638
Tensile Strength ² (Yield)	44.8	MPa	ASTM D638
Tensile Elongation ³ (Break)	35	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
0°C, 3.18 mm, Injection Molded	110	J/m	
23°C, 3.18 mm, Injection Molded	690	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed, 6.35 mm	68.9	°C	
0.45 MPa, Annealed, 6.35 mm	72.8	°C	
1.8 MPa, Unannealed, 6.35 mm	67.2	°C	
1.8 MPa, Annealed, 6.35 mm	68.9	°C	
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
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)	75.0	%	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



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