

PolyOne Geon™ Vinyl Rigid Molding M5100 Natural Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

NOTE: Geon weatherable compounds contain pigments and ingredients that, along with processing conditions, contribute to the weathering performance of the PVC compounds. The weathering performance of unpigmented compounds or so-called natural compounds generally is inferior to pigmented compounds. Unpigmented weatherable compounds may also contain non-pigment ingredients which can interact unpredictably with pigments to produce unexpected weathering results. Therefore, in applications where processors or customers would like to use an unpigmented compound, or add their own pigment package, it is the customer's responsibility to determine whether or not the weathering performance after pigmentation is acceptable in their specific end-use application. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M5100-Natural-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	55.9 cm	22.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	ASTM D2240
Tensile Strength, Yield	50.3 MPa	7300 psi	51 mm/min; ASTM D638
Elongation at Break	25 %	25 %	51 mm/min; ASTM D638
Tensile Modulus	2.96 GPa	429 ksi	51 mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	1.10 J/cm	2.06 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	67.2 °C	153 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
	72.2 °C	162 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	
	NSF Unspecified Rating	
Features	Medium Flow	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China