

PolyOne Geon™ Vinyl Rigid Molding M3800 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M3800-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	111.76 cm	44.000 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	41.4 MPa	6000 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	35 %	35 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.28 GPa	331 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	66.9 MPa	9700 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	2.70 J/cm	5.06 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	6.40 J/cm	12.0 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.2 °C	162 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	75.0 °C	167 °F	

Thermal Properties	Metric @ Thickness 6.35 mm	English @ Thickness 0.250 in	Comments Annealed: ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.9 °C @Thickness 6.35 mm	156 °F @Thickness 0.250 in	Unannealed; ASTM D648
	72.8 °C @Thickness 6.35 mm	163 °F @Thickness 0.250 in	Annealed; ASTM D648
UL RTI, Electrical	90.0 °C	194 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	All Colors
	V-0 @Thickness 1.40 mm	V-0 @Thickness 0.0551 in	ALL; UL 94
	5VA @Thickness 1.60 mm	5VA @Thickness 0.0630 in	ALL; UL 94
	5VA @Thickness 1.60 mm	5VA @Thickness 0.0630 in	All Colors

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

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
	NSF 61	
Features	General Purpose	
	High Flow	
	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	

Descriptive Properties	Asia Pacific Value	Comments
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliances	
	Business Equipment	
	Construction Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Telecommunications	

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