

PolyOne Geon™ Vinyl Rigid Molding M3900 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-M3900-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	88.9 cm	35.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Yield	37.9 MPa	5500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.28 GPa	331 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	ASTM D790
Izod Impact, Notched	2.10 J/cm	3.93 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	5.90 J/cm	11.1 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	7.50 J/cm	14.1 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)	71.1 °C	160 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	77.2 °C	171 °F	

Thermal Properties	Metric @ Thickness 6.35 mm	English @ Thickness 0.250 in	Annealed: ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C @Thickness 6.35 mm	158 °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 1.40 mm	V-0 @Thickness 0.0551 in	ALL; UL 94
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	All Colors
	5VB @Thickness 1.91 mm	5VB @Thickness 0.0752 in	All Colors
	5VB @Thickness 1.40 mm	5VB @Thickness 0.0551 in	ALL; UL 94

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

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Flow	
	Low Temperature Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	North America Value	Comments
	South America	
Uses	Appliances	
	Business Equipment	
	Construction Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Telecommunications	

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