

PolyOne Geon™ Vinyl Rigid Molding M3890 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-M3890-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	91.4 cm	36.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	43 %	43 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	2.42 GPa	351 ksi	ASTM D790
Izod Impact, Notched	5.90 J/cm	11.1 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	6.40 J/cm	12.0 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 0.46 MPa (66 psi)	71.1 °C	160 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	75.0 °C	167 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa	67.8 °C	154 °F	Unannealed; ASTM D648

(264 psi) 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	
UL RTI, Electrical	50.0 °C	122 °F	UL 746
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 1.40 mm	@Thickness 0.0551 in	

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

Descriptive Properties	Value	Comments
Appearance	Opaque	
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	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliances	
	Business Equipment	
	Construction Applications	
	Electrical/Electronic Applications	
	General Purpose	

Descriptive Properties	Value	Comments
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