

PolyOne Geon™ Vinyl Rigid Molding 6957 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-6957-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 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	78	78	ASTM D2240
Tensile Strength, Yield	37.9 MPa	5500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	25 %	25 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.45 GPa	355 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	73.1 MPa	10600 psi	ASTM D790
Flexural Modulus	2.52 GPa	365 ksi	ASTM D790
Izod Impact, Notched	2.70 J/cm	5.06 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	5.30 J/cm	9.93 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	11.0 J/cm	20.6 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)	68.9 °C	156 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	72.2 °C	162 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Thickness 6.35 mm	@Thickness 0.250 in	Unannealed; ASTM D648
	70.0 °C	158 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Flammability, UL94	V-0	V-0	GY; UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	V-0	V-0	Gray
	@Thickness 1.53 mm	@Thickness 0.0602 in	

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

Descriptive Properties	Value	Comments
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	

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