

PolyOne Geon™ Vinyl Rigid Extrusion 87727 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

The Cell Classification was determined using the notched Izod test with injection molded samples. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87727-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	15 sec; ASTM D2240
Tensile Strength, Yield	56.9 MPa	8250 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.87 GPa	416 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	93.5 MPa	13600 psi	ASTM D790
Flexural Modulus	2.92 GPa	424 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.843 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Dart Drop Total Energy	66.3 J/cm @Temperature 23.0 °C	0.124 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	175 J/cm @Temperature 23.0 °C	0.328 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	61.2 °C @Thickness 3.18 mm	142 °F @Thickness 0.125 in	Injection Molded; Annealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	TP; UL 94

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	182 - 193 °C Metric	360 - 379 °F English	Comments
Descriptive Properties	Value		Comments
Appearance	Clear/Transparent		
Features	General Purpose		
Forms	Pellets		
Generic Material	PVC, Rigid		
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)		
Processing Method	Extrusion		
PVC Cell Classification	11553		ASTM D1784
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	General Purpose		
	Profiles		

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