

PolyOne Geon™ Vinyl Rigid Extrusion 87160 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Note: NSF listings are obtained on specific colors. Contact PolyOne for the latest listing of approved colors for this product. Note: 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-87160-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	15 sec; ASTM D2240
Tensile Strength, Yield	43.7 MPa	6340 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.89 GPa	419 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	82.3 MPa	11900 psi	ASTM D790
Flexural Modulus	2.89 GPa	419 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	1.30 J/cm	2.44 ft-lb/in	Compression Molded, Across Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	65.8 J/cm	0.123 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	161 J/cm	0.302 ft-lb/mil	Procedure B, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
	V-0	V-0	

Flammability, UL 94 Thermal Properties	Metric @ Thickness 0.749 mm	English @ Thickness 0.0295 in	ALL: UL 94 Comments
	5VA	5VA	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 51	
Ease of Sizing	Good	
Features	General Purpose	
	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	13354	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	General Purpose	
	Profiles	

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