

PolyOne Geon™ Vinyl Rigid Extrusion 87150 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-87150-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	15 sec; ASTM D2240
Tensile Strength, Yield	41.9 MPa	6080 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.71 GPa	393 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	72.1 MPa	10500 psi	ASTM D790
Flexural Modulus	2.52 GPa	365 ksi	ASTM D790
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	8.70 J/cm	16.3 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	
	11.0 J/cm	20.6 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Dart Drop Total Energy	52.5 J/cm	0.0984 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	108 J/cm	0.202 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	65.0 µm/m-°C	36.1 µin/in-°F	ASTM D696

Thermal Properties (204 psi)	74.4 °C Metric	166 °F English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	Comments: ASTM D648
Flammability, UL94	V-0	V-0	All Colors
	@Thickness 0.701 mm	@Thickness 0.0276 in	
	V-0	V-0	ALL; UL 94
	@Thickness 0.749 mm	@Thickness 0.0295 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.90 mm	@Thickness 0.0748 in	
	5VA	5VA	All Colors
	@Thickness 0.730 mm	@Thickness 0.0287 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	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	16344	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	

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