

PolyOne Geon™ Vinyl Rigid Extrusion L4857 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-L4857-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	15 sec; ASTM D2240
Tensile Strength, Yield	42.7 MPa	6190 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.45 GPa	355 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	77.9 MPa	11300 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	2.00 J/cm	3.75 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	2.20 J/cm	4.12 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	53.4 J/cm	0.100 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	187 J/cm	0.350 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	59.0 µm/m-°C	32.8 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	72.8 °C	163 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
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<small>Melt Temperature</small> Processing Properties	<small>182 - 193 °C</small> Metric	<small>360 - 379 °F</small> English	Comments
Descriptive Properties	Value		Comments
Ease of Sizing	Good		
Features	Good Weather Resistance		
	High Impact Resistance		
	Low Gloss		
Forms	Cube		
Generic Material	PVC, Rigid		
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)		
Processing Method	Extrusion		
PVC Cell Classification	1-41432-33		ASTM D4216
	16334		ASTM D1784
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Outdoor Applications		
	Profiles		

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