

PolyOne Geon™ Vinyl Rigid Extrusion L0248 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-L0248-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	15 sec; ASTM D2240
Tensile Strength, Yield	45.5 MPa	6600 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.58 GPa	374 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	78.9 MPa	11400 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	7.70 J/cm	14.4 ft-lb/in	Compression Molded, Flow; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched	11.0 J/cm	20.6 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	51.6 J/cm	0.0967 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop Total Energy	235 J/cm	0.440 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	74.0 µm/m-°C	41.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °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	182 - 193 °C Metric	360 - 379 °F English	Comments
Descriptive Properties	Value		Comments
Appearance	Clear/Transparent		
Features	High Impact Resistance		
Forms	Pellets		
Generic Material	PVC, Rigid		
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)		
Processing Method	Extrusion		
PVC Cell Classification	16343		ASTM D1784
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
Uses	Profiles		

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