

PolyOne Geon™ Vinyl Rigid Extrusion L0152 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-L0152-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	83	83	15 sec; ASTM D2240
Tensile Strength, Yield	43.9 MPa	6370 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.61 GPa	379 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	80.7 MPa	11700 psi	ASTM D790
Flexural Modulus	2.81 GPa	408 ksi	ASTM D790
Izod Impact, Notched	6.00 J/cm	11.2 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	
	7.80 J/cm	14.6 ft-lb/in	Compression Molded, Flow; ASTM D256A
Dart Drop Total Energy	55.6 J/cm	0.104 ft-lb/mil	Procedure A, C.125; ASTM D4226
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	199 J/cm	0.373 ft-lb/mil	Procedure B, C.125; ASTM D4226
	9.40 J/cm	17.6 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	68.9 °C	156 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

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	Profile 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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