

PolyOne Geon™ Vinyl Rigid Extrusion L7703 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-L7703-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	15 sec; ASTM D2240
Tensile Strength, Yield	43.6 MPa	6320 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.28 GPa	476 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	3.35 GPa	486 ksi	ASTM D790
Izod Impact, Notched	4.80 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	8.99 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	75.6 J/cm @Temperature 23.0 °C	0.142 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	75.6 J/cm @Temperature 23.0 °C	0.142 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C @Thickness 3.18 mm	165 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 199 °C	360 - 390 °F	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Profile Extrusion	
PVC Cell Classification	1-42234-33-0101	ASTM D4216
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	

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