

PolyOne Geon™ Vinyl Rigid Extrusion 87736 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-87736-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	15 sec; ASTM D2240
Tensile Strength, Yield	52.2 MPa	7570 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.78 GPa	403 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	92.6 MPa	13400 psi	ASTM D790
Flexural Modulus	2.99 GPa	434 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.993 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	48.9 J/cm @Temperature 23.0 °C	0.0916 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	160 J/cm @Temperature 23.0 °C	0.300 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 µm/m-°C	37.8 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	65.6 °C @Thickness 3.18 mm	150 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	179 - 193 °C	354 - 379 °F	

Descriptive Properties	Value	Comments
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Descriptive Properties	Value ^{Transparent}	Comments
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Capstock	
	Profiles	

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