

PolyOne Geon™ Vinyl Rigid Extrusion L4536 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-L4536-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	15 sec; ASTM D2240
Tensile Strength, Yield	53.2 MPa	7720 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.88 GPa	418 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	98.6 MPa	14300 psi	ASTM D790
Flexural Modulus	3.03 GPa	439 ksi	ASTM D790
Izod Impact, Notched	0.410 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.768 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	85.4 J/cm @Temperature 23.0 °C	0.160 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	85.4 J/cm @Temperature 23.0 °C	0.160 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 0.46 MPa (66 psi)	79.1 °C	174 °F	Annealed; ASTM D648
	79.8 °C @Thickness 3.18 mm	176 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	76.6 °C	170 °F	Annealed; ASTM D648
	73.3 °C	164 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
Optical Properties	Metric	English	Comments
Gloss	60 %	60 %	60°; ASTM D2457

Descriptive Properties	Value	Comments
Forms	Cube	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Coextrusion	
	Profile Extrusion	
PVC Cell Classification	12454	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Capstock	
	Fencing & Decking	
	Outdoor Applications	
	Profiles	

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