

PolyOne Geon™ Vinyl Rigid Extrusion L7007 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Geon L7007 is recommended for whites and light pastel colors only. Geon L7007 is a higher gloss version of L7005. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Extrusion-L7007-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	15 sec; ASTM D2240
Tensile Strength, Yield	43.2 MPa	6270 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.85 GPa	413 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	84.8 MPa	12300 psi	ASTM D790
Flexural Modulus	2.96 GPa	429 ksi	ASTM D790
Izod Impact, Notched	5.90 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	11.1 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	73.4 J/cm @Temperature 23.0 °C	0.138 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	178 J/cm @Temperature 23.0 °C	0.333 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	73.9 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	165 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C @Thickness 3.18 mm	160 °F @Thickness 0.125 in	Compression Molded, Annealed at 50 deg.C; ASTM D648

Thermal Properties	74.4 °C Metric	166 °F English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	Compression Molded, Annealed at 60 deg C, ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 193 °C	360 - 379 °F	

Descriptive Properties	Value	Comments
Ease of Sizing	Acceptable	
Features	Good Impact Resistance	
	Good Weather Resistance	
	Medium Gloss	
Forms	Cube	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
PVC Cell Classification	1-42434-33	ASTM D4216
	15354	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	
	Profiles	
	Windows & Doors	

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