

PolyOne Geon™ Vinyl Dry Blend E7001 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

60 degree gloss comparisons: Geon E7001 is 27-29; Geon E7456 is 40-49; Geon E7130 is 38-43; Geon E7370 is 26-31 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Dry-Blend-E7001-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	43.6 MPa	6320 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.74 GPa	397 ksi	ASTM D790
Izod Impact, Notched	6.80 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	12.7 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
Dart Drop Total Energy	66.7 J/cm @Temperature 23.0 °C	0.125 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)	80.0 °C @Thickness 3.18 mm	176 °F @Thickness 0.125 in	Unannealed; ASTM D648
	81.1 °C @Thickness 3.18 mm	178 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C @Thickness 3.18 mm	165 °F @Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed, ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 204 °C	379 - 399 °F	

Descriptive Properties	Value	Comments
Features	High Impact Resistance	
	Low Gloss	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
	Profile Extrusion	
PVC Cell Classification	1-42433-43-0000	ASTM D4216
	15344	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	

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