

PolyOne Geon™ Vinyl Dry Blend E7506 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

Geon E7506 is recommended for whites and light pastel colors only. Performs well in extrusion blow molding and high rate fencing capstock applications. Physical properties based on Geon E7506 white 1880. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Dry-Blend-E7506-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.92 GPa	424 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	84.3 MPa	12200 psi	ASTM D790
Flexural Modulus	3.15 GPa	457 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.06 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	57.4 J/cm @Temperature 23.0 °C	0.108 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	60.1 J/cm @Temperature 23.0 °C	0.113 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	61.0 µm/m-°C	33.9 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	77.5 °C @Thickness 3.18 mm	172 °F @Thickness 0.125 in	conditioned @ 50 deg.C; ASTM D648
	80.0 °C @Treatment Temp. 60.0 °C, Thickness 3.18 mm	176 °F @Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.9 °C	169 °F	Compression Molded, Conditioned at 50 deg.C; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
	78.3 °C	173 °F	Compression Molded, Annealed at 60 deg.C; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 210 °C	379 - 410 °F	

Descriptive Properties	Value	Comments
Features	High Gloss	
	Medium Impact Resistance	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
	Extrusion Blow Molding	
PVC Cell Classification	16354	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Blow Molding Applications	
	Capstock	
	Outdoor Applications	

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