

PolyOne Geon™ Vinyl Dry Blend E7755 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-Dry-Blend-E7755-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	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	79.4 MPa	11500 psi	ASTM D790
Flexural Modulus	3.01 GPa	437 ksi	ASTM D790
Izod Impact, Notched	13.0 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	24.4 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
Dart Drop Total Energy	71.2 J/cm @Temperature 23.0 °C	0.133 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	133 J/cm @Temperature 23.0 °C	0.249 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)	74.8 °C	167 °F	conditioned @ 50 deg.C; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	72.8 °C @Thickness 3.18 mm	163 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.370 mm	HB @Thickness 0.0146 in	white; UL 94
	V-0	V-0	All Color; UL 94

Thermal Properties	@Thickness 0.750 mm Metric	@Thickness 0.0295 in English	Comments
	5VA	5VA	white; UL 94
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.70e+15 ohm-cm	7.70e+15 ohm-cm	ASTM D257
	@Thickness 1.22 mm	@Thickness 0.0480 in	
Surface Resistance	4.70e+14 ohm	4.70e+14 ohm	ASTM D257
	@Thickness 1.22 mm	@Thickness 0.0480 in	

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

Descriptive Properties	Value	Comments
Features	Good Thermal Stability	
	High Impact Resistance	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Outdoor Suitability	f1	UL 746C
Processing Method	Extrusion	
	Profile Extrusion	
	Sheet Extrusion	
PVC Cell Classification	1-42434-33-0100	ASTM D4216
	16354	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

Uses

Descriptive Properties	Fencing & Decking Value	Comments
	Film	
	Outdoor Applications	
	Profiles	
	Sheet	

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