

PolyOne Geon™ Vinyl Dry Blend E7456 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-E7456-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	82	82	ASTM D2240
Tensile Strength, Yield	47.9 MPa	6950 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.09 GPa	448 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	90.3 MPa	13100 psi	ASTM D790
Flexural Modulus	2.88 GPa	418 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; 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
	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	65.0 µm/m-°C	36.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C @Thickness 3.18 mm	160 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94

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

Descriptive Properties	Value	Comments
AAMA 303	Pass	ASTM D4726
Features	High Impact Resistance	
Forms	Powder	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Mean Heat Buildup	26 °C	ASTM D4803
Processing Method	Extrusion	
	Profile Extrusion	
PVC Cell Classification	1-42444-33-1141	ASTM D4216
	16364	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Building Materials	
	Fencing & Decking	
	Outdoor Applications	

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