

PolyOne Geon™ Vinyl Cellular E2000 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-Cellular-E2000-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.549 - 0.648 g/cc	0.549 - 0.648 g/cc	Cellular; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength, Yield	14.9 MPa	2160 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.14 GPa	165 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	29.1 MPa	4220 psi	ASTM D790
Flexural Modulus	1.21 GPa	175 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.393 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded, Across Flow; ASTM D256A
Dart Drop Total Energy	6.67 J/cm @Temperature 23.0 °C	0.0125 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 µm/m-°C	30.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C @Thickness 3.18 mm	149 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	177 - 182 °C	351 - 360 °F	

Descriptive Properties	Value	Comments
Forms	Cellular, Free Blow	
	Cellular, Inward Foam	

Descriptive Properties	Powder Value	Comments
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Processing Method	Extrusion	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	

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