

PolyOne Geon™ Vinyl Cellular E2010 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

NOTE: Physical Properties were measured on flat cellular profiles with a 0.59 specific gravity natural compound. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Cellular-E2010-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.549 - 0.748 g/cc	0.549 - 0.748 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; 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	188 - 199 °C	370 - 390 °F	

Descriptive Properties	Value	Comments
Forms	Cellular, Free Blow	
	Powder	

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

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