

## PolyOne Geon™ Vinyl Cellular E2519 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

### Material Notes:

Note: Physical properties were measured on non-foamed profiles. Measured density of an extruded 1 thick free foamed part was 0.70 gms/cc at a 360 deg.F melt temperature. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-Vinyl-Cellular-E2519-Polyvinyl-Chloride-Rigid-PVC-Rigid.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Cellular-E2519-Polyvinyl-Chloride-Rigid-PVC-Rigid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	Cellular; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Yield	55.1 MPa	7990 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	94.5 MPa	13700 psi	ASTM D790
Flexural Modulus	3.02 GPa	438 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.843 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	53.8 J/cm @Temperature 23.0 °C	0.101 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	53.8 J/cm @Temperature 23.0 °C	0.101 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 μm/m-°C	37.2 μin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	79.4 °C @Treatment Temp. 60.0 °C, Thickness 3.18 mm	175 °F @Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648
	79.4 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	175 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648

Thermal Properties	75.6 °C Metric	168 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Treatment Temp. 50.0 °C, Thickness 3.18 mm	@Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
	76.2 °C	169 °F	
	@Treatment Temp. 60.0 °C, Thickness 3.18 mm	@Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648

Descriptive Properties	Value	Comments
Forms	Cellular, Free Blow	
	Cellular, Inward Foam	
	Powder	
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	Consumer Applications	
	Cosmetics	

## Contact Songhan Plastic Technology Co.,Ltd.

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