Geon™ Vinyl Cellular E8202

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
All physicals were measured on an actual extruded part of a shutter profile.High rate inward foam applications.Density range .55-.70.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Foamable		
Uses	• Building Materials	• Outdoor Applications	
Forms	• Cellular	• Powder	
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.709	0.709	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	183000 psi	1260 MPa	ASTM D638
Tensile Elongation [2] (Break)	2500 %	2500 %	ASTM D638
Flexural Modulus	262000 psi	1810 MPa	ASTM D790
Flexural Strength	4790 psi	33.0 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.80 ft·lb/in	43 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	0.470 in·lb/mil	20.9 J/cm	
73°F (23°C) [4]	4.00 in·lb/mil	178 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D, 15 sec)	75	75	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	144 °F	62.0 °C	
CLTE - Flow	2.8E-5 in/in/°F	5.0E-5 cm/cm/°C	ASTM D696

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 375 °F	182 to 191 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

[3] Procedure A, C.125 Dart

[4] Procedure B, C.125 Dart