



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 • Europe • Asia Pacific • 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
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 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.80 ft·lb/in	43 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴	4.00 in·lb/mil	178 J/cm	ASTM D4226
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 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	144 °F	62.0 °C	ASTM D648
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

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