



Geon™ Vinyl Cellular E2500

Rigid Polyvinyl Chloride

Key Characteristics

Product Description	
Geon E2500 is a general purpose single and twin screw cellular PVC compound for Celuka type applications.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Uses	• Building Materials • Outdoor Applications
Forms	• Cellular, Inward Foam • Powder
Processing Method	• Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity ²	0.600 to 0.800	0.600 to 0.800	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³	490000 psi	3380 MPa	ASTM D638
Tensile Strength ³ (Yield)	7480 psi	51.6 MPa	ASTM D638
Flexural Modulus	496000 psi	3420 MPa	ASTM D790
Flexural Strength	14000 psi	96.8 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Across Flow 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.70 ft·lb/in	37 J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
73°F (23°C) ⁴	0.230 in·lb/mil	10.2 J/cm	
73°F (23°C) ⁵	0.230 in·lb/mil	10.2 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	85	85	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)	158 °F	70.0 °C	ASTM D648
CLTE - Flow	3.3E-5 in/in/°F	5.9E-5 cm/cm/°C	ASTM D696

Additional Information

Physical properties were measured on non-foamed profiles.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 375 °F	177 to 191 °C

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Notes

¹ Typical values are not to be construed as specifications.

² Cellular

³ Type I, 0.20 in/min (5.1 mm/min)

⁴ Procedure A, C.125 Dart

⁵ Procedure B, C.125 Dart

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