



Geon™ Vinyl Rigid Extrusion 86110 white 1275

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Capstock	• Fencing & Decking	• Outdoor Applications
Forms	• Cube		
Processing Method	• Coextrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.49	1.49	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	404000 psi	2790 MPa	ASTM D638
Tensile Strength ² (Yield)	5860 psi	40.4 MPa	ASTM D638
Flexural Modulus	380000 psi	2620 MPa	ASTM D790
Flexural Strength	10400 psi	71.7 MPa	ASTM D790
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	79	79	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	173 °F	78.3 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed	177 °F	80.4 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	164 °F	73.4 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	173 °F	78.4 °C	ASTM D648
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)