



Geon™ Vinyl Rigid Extrusion L4536

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 • Profiles	
Forms	• Cube		
Processing Method	• Coextrusion	• Profile Extrusion	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37	ASTM D792
PVC Cell Classification	12454	12454	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	417000 psi	2880 MPa	ASTM D638
Tensile Strength ² (Yield)	7710 psi	53.2 MPa	ASTM D638
Flexural Modulus	440000 psi	3030 MPa	ASTM D790
Flexural Strength	14300 psi	98.6 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	0.77 ft·lb/in	41 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.92 in·lb/mil	85.4 J/cm	
73°F (23°C) ⁴	1.92 in·lb/mil	85.4 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	81	81	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	176 °F	79.8 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed	174 °F	79.1 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	164 °F	73.3 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	170 °F	76.6 °C	
CLTE - Flow	3.4E-5 in/in/°F	6.0E-5 cm/cm/°C	ASTM D696
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gloss (60°)	60	60	ASTM D2457

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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