



Geon™ Vinyl Rigid Extrusion L7703

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Outdoor Applications		
Forms	• Pellets		
Processing Method	• Profile Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.49	1.49	ASTM D792
PVC Cell Classification	1-42234-33-0101	1-42234-33-0101	ASTM D4216
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	476000 psi	3280 MPa	ASTM D638
Tensile Strength ² (Yield)	6320 psi	43.6 MPa	ASTM D638
Flexural Modulus	486000 psi	3350 MPa	ASTM D790
Flexural Strength	13000 psi	89.6 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	8.9 ft-lb/in	480 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³	1.70 in-lb/mil	75.6 J/cm	ASTM D4226
73°F (23°C) ⁴	1.70 in-lb/mil	75.6 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	84	84	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)	165 °F	73.9 °C	ASTM D648
CLTE - Flow	3.3E-5 in/in/°F	6.0E-5 cm/cm/°C	ASTM D696
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Good	Good	

Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	360 to 390 °F	182 to 199 °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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