



Geon™ Vinyl Rigid Extrusion 87736

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Capstock • Profiles		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.34	1.34	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	403000 psi	2780 MPa	ASTM D638
Tensile Strength ² (Yield)	7570 psi	52.2 MPa	ASTM D638
Flexural Modulus	433000 psi	2990 MPa	ASTM D790
Flexural Strength	13400 psi	92.6 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	1.0 ft·lb/in	53 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³	1.10 in·lb/mil	48.9 J/cm	ASTM D4226
73°F (23°C) ⁴	3.60 in·lb/mil	160 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	82	82	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)	150 °F	65.6 °C	ASTM D648
CLTE - Flow	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	ASTM D696

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	355 to 380 °F	179 to 193 °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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