



Geon™ Vinyl Rigid Extrusion 6935

Rigid Polyvinyl Chloride

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Good Impact Resistance • UV Resistant • Weather Resistant
Agency Ratings	• CSA A440-M90
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.46	1.46	ASTM D792
PVC Cell Classification	1-41434-33	1-41434-33	ASTM D4216
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	433000 psi	2990 MPa	ASTM D638
Tensile Strength ² (Yield)	6010 psi	41.4 MPa	ASTM D638
Flexural Modulus	422000 psi	2910 MPa	ASTM D790
Flexural Strength	11800 psi	81.2 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	22 ft·lb/in	1200 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	19 ft·lb/in	1000 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.10 in·lb/mil	48.9 J/cm	
73°F (23°C) ⁴	3.90 in·lb/mil	173 J/cm	
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			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	163 °F	72.8 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.04 in (0.9 mm), ALL)	V-0	V-0	UL 94
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Excellent	Excellent	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 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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