



Geon™ Vinyl Rigid Extrusion 87570

Rigid Polyvinyl Chloride

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Low Smoke Emission
Uses	• Profiles
Agency Ratings	• ASTM E84
Appearance	• Translucent
Forms	• Pellets
Processing Method	• Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.44	1.44	ASTM D792
PVC Cell Classification	14344	14344	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	488000 psi	3360 MPa	ASTM D638
Tensile Strength ² (Yield)	6120 psi	42.2 MPa	ASTM D638
Flexural Modulus	462000 psi	3190 MPa	ASTM D790
Flexural Strength	11200 psi	77.2 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), Injection Molded	7.2 ft·lb/in	380 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	16 ft·lb/in	850 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.3 ft·lb/in	69 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.05 in·lb/mil	46.7 J/cm	
73°F (23°C) ⁴	1.05 in·lb/mil	46.7 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	83	83	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)	160 °F	71.0 °C	
CLTE - Flow	3.4E-5 in/in/°F	6.2E-5 cm/cm/°C	ASTM D696

Additional Information

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

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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