



Geon™ Vinyl Rigid Extrusion 87560

Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.33	1.33	ASTM D792
PVC Cell Classification	12443	12443	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	396000 psi	2730 MPa	ASTM D638
Tensile Strength ² (Yield)	7520 psi	51.8 MPa	ASTM D638
Flexural Modulus	424000 psi	2920 MPa	ASTM D790
Flexural Strength	12500 psi	86.2 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	1.4 ft·lb/in	75 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.0 ft·lb/in	53 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.6 ft·lb/in	85 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.35 in·lb/mil	60.1 J/cm	
73°F (23°C) ⁴	4.47 in·lb/mil	199 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)	149 °F	65.0 °C	
Vicat Softening Temperature			
--	180 °F	82.2 °C	ISO 306 ⁵
--	164 °F	73.1 °C	ISO 306 ⁶
CLTE - Flow	4.0E-5 in/in/°F	7.2E-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	375 to 400 °F	191 to 204 °C

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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

- ⁵ Rate B (120°C/h), Loading 1 (10 N)

- ⁶ Rate B (120°C/h), Loading 2 (50 N)

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