



Geon™ Vinyl Rigid Extrusion L0678 Natural Rigid Polyvinyl Chloride

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.44	1.44	ASTM D792
PVC Cell Classification	16364	16364	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	466000 psi	3210 MPa	ASTM D638
Tensile Strength ² (Yield)	6390 psi	44.1 MPa	ASTM D638
Flexural Modulus	443000 psi	3050 MPa	ASTM D790
Flexural Strength	12100 psi	83.2 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	21 ft·lb/in	1100 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	8.7 ft·lb/in	460 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.7 ft·lb/in	140 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.27 in·lb/mil	56.5 J/cm	
73°F (23°C) ⁴	1.27 in·lb/mil	56.5 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	78	78	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)	156 °F	68.9 °C	
CLTE - Flow	3.2E-5 in/in/°F	5.8E-5 cm/cm/°C	ASTM D696
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Acceptable	Acceptable	
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

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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

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