



Geon™ Vinyl Rigid Extrusion L0111

Rigid Polyvinyl Chloride

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Food Contact Acceptable
Uses	• Profiles
Agency Ratings	• FDA Food Contact, Unspecified Rating
Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	ASTM D792
PVC Cell Classification	13453	13453	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	405000 psi	2790 MPa	ASTM D638
Tensile Strength ² (Yield)	7140 psi	49.2 MPa	ASTM D638
Flexural Modulus	416000 psi	2870 MPa	ASTM D790
Flexural Strength	12400 psi	85.5 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	1.6 ft·lb/in	85 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.80 ft·lb/in	43 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.60 ft·lb/in	32 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.37 in·lb/mil	60.9 J/cm	
73°F (23°C) ⁴	4.32 in·lb/mil	192 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	84	84	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)	154 °F	67.8 °C	
CLTE - Flow	3.7E-5 in/in/°F	6.7E-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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