



Geon™ Vinyl Rigid Extrusion L6701

Rigid Polyvinyl Chloride

Key Characteristics

Product Description	
Geon L6701 exhibits improved impact properties at lower processing temperatures than Geon 8700X and L6700 products.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Good Dimensional Stability • Good Melt Strength
Uses	• Profiles
Forms	• Cube
Processing Method	• Extrusion

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.40	1.40	ASTM D792
PVC Cell Classification	15344	15344	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	387000 psi	2670 MPa	ASTM D638
Tensile Strength ² (Yield)	6510 psi	44.9 MPa	ASTM D638
Flexural Modulus	436000 psi	3010 MPa	ASTM D790
Flexural Strength	11900 psi	81.8 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), Compression Molded ³	8.6 to 14 ft·lb/in	460 to 740 J/m	
73°F (23°C), 0.125 in (3.18 mm), Compression Molded ⁴	12 ft·lb/in	650 J/m	
73°F (23°C), 0.125 in (3.18 mm), Compression Molded ⁵	2.8 ft·lb/in	150 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ^{6,7}	1.60 in·lb/mil	71.2 J/cm	
73°F (23°C) ^{8,9}	> 4.00 in·lb/mil	> 178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	77	77	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ¹⁰	169 °F	75.9 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ¹¹	172 °F	77.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ¹⁰	162 °F	72.2 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ¹¹	171 °F	77.0 °C	
CLTE - Flow	3.5E-5 in/in/°F	6.3E-5 cm/cm/°C	ASTM D696

Additional Information	Typical Value (English)	Typical Value (SI)
Ease of Sizing	Excellent	Excellent
Physical properties based on Geon L6701 natural 0000 lot# 4948764 sample unless specified.		

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 Obtained from lab scale compound extruded on 2.5" commercial scale machine.
- ⁴ Based on commercial production sample milled sheet.
- ⁵ Based on commercial production sample extruded profiles.
- ⁶ Procedure A, C.125 Dart
- ⁷ Obtained from lab scale compound extruded on a 2.5" commercial scale machine.
- ⁸ Procedure B, C.125 Dart
- ⁹ Results based on Brabender Single Screw extruded strips.
- ¹⁰ Annealed at 50 deg.C
- ¹¹ Annealed at 60 deg.C



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