



# Geon™ Bold L5000

## Polyvinyl Chloride Alloy

### Key Characteristics

Product Description			
PVC alloy for dark color capstock, profiles or sheet requiring good weathering in both horizontal (colors with L values greater than 60) and vertical applications. Comes in high gloss but may be customized for an application.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• High Gloss	• Weather Resistant
Uses	• Capstock • Construction Applications	• Decorative Railing • Profiles	• Sheet • Windows & Doors
Forms	• Cube		
Processing Method	• Extrusion		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.40	1.40	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	328000 psi	2260 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6370 psi	43.9 MPa	ASTM D638
Flexural Modulus	361000 psi	2490 MPa	ASTM D790
Flexural Strength	11100 psi	76.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.9 ft·lb/in	100 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) <sup>3</sup> 73°F (23°C) <sup>4</sup>	1.63 in·lb/mil > 4.00 in·lb/mil	72.5 J/cm > 178 J/cm	ASTM D4226
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 <sup>5</sup> 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	160 °F	71.0 °C	ASTM D648
Deflection Temperature Under Load <sup>5</sup> 264 psi (1.8 MPa), Annealed	157 °F	69.3 °C	ASTM D648
CLTE - Flow	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	ASTM D696

**Additional Information**  
 Note: Physical properties based on Geon Bold L5000 LHB Brown 3481 Lot# 4699345 sample.

### Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C
Extrusion Notes		
Melt flow and downstream calibration similar to standard rigid PVC. Wider processing window allows sheet extrusion.		

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

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<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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<sup>3</sup> Procedure A, C.125 Dart

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<sup>4</sup> Procedure B, C.125 Dart

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<sup>5</sup> Conditioned at 50 deg.C



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