



Geon™ Bold L5801

Polyvinyl Chloride Alloy

Key Characteristics

Product Description

PVC alloy for dark color capstock requiring premium weathering in both horizontal and vertical applications. May provide a wider processing window on traditional calibration tooling. Comes in low gloss. Best option for lower heat build-up in "jet black".

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Weather Resistance • Low Gloss		
Uses	• Capstock • Decorative Railing • Construction Applications • Windows & Doors		
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.28	1.28	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	323000 psi	2230 MPa	ASTM D638
Tensile Strength ² (Yield)	4580 psi	31.6 MPa	ASTM D638
Tensile Elongation ² (Break)	55 %	55 %	ASTM D638
Flexural Modulus ³	340000 psi	2340 MPa	ASTM D790
Flexural Strength ³ (Yield)	11500 psi	79.3 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
0.125 in (3.18 mm), Compression Molded	0.50 ft·lb/in	27 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ⁴	1.33 in·lb/mil	59.2 J/cm	
73°F (23°C) ⁵	> 4.00 in·lb/mil	> 178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	79	79	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ⁶			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	141 °F	60.7 °C	
Deflection Temperature Under Load ⁶			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	122 °F	49.9 °C	
CLTE - Flow	4.0E-5 in/in/°F	7.2E-5 cm/cm/°C	ASTM D696

Additional Information

Physical properties based on Geon L4067TME2 LHB Black 2880.

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Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	300 to 350 °F	149 to 177 °C

Extrusion Notes

Melt flow, extrusion conditions and downstream calibration likely to be different than standard rigid PVC. Wet vacuum calibration is recommended but may also work on dry calibration.

Notes

- ¹ Typical values are not to be construed as specifications.
- ² Type I, 0.20 in/min (5.1 mm/min)
- ³ 2.0 in/min (51 mm/min)
- ⁴ Procedure A, .125"
- ⁵ Procedure B, .125"
- ⁶ Conditioned at 50 deg.C

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