

Geon™ Bold L5500

Polyvinyl Chloride Alloy

PolyOne Corporation

Message:

PVC alloy for dark color capstock or profiles requiring excellent weathering in both horizontal and vertical applications. Comes in high gloss but may be customized for an application. Particularly suited for capstock over wood-plastic composite railings.

General Information			
Features	Highlight		
	Good weather resistance		
Uses	Decorative Railing		
	Architectural application field		
	Doors and Windows		
	Tread rubber		
	Profile		
	Fences and decorations		
Forms	Cube		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	81		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2240	MPa	ASTM D638
Tensile Strength ² (Yield)	46.2	MPa	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	68.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Compression Molded)	120	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C ³	49.4	J/cm	ASTM D4226
23°C ⁴	> 178	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵			ASTM D648
0.45 MPa, annealed, 3.18mm	84.4	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	75.6	°C	ASTM D648
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696
Additional Information			

Physical properties based on Geon Bold L5500 Brown 3566.

Extrusion	Nominal Value	Unit
Melt Temperature	193 - 204	°C

Extrusion instructions

Melt flow different but downstream calibration similar to standard rigid PVC.

NOTE

1.	Type 1, 5.1 mm/min
2.	Type 1, 5.1 mm/min
3.	Procedure A, C.125 Throwing
4.	Procedure B, C.125 Throwing
5.	Conditioned at 50 deg.C

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