

# Geon™ Bold L5800

Polyvinyl Chloride Alloy

PolyOne Corporation

Message:

Custom molding

General Information			
Features	Gloss, Medium		
	Good weather resistance		
Uses	Decorative Railing		
	Architectural application field		
	Doors and Windows		
	Tread rubber		
Forms	Cube		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	79		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2230	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	31.6	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	55	%	ASTM D638
Flexural Modulus <sup>4</sup>	2340	MPa	ASTM D790
Flexural Strength <sup>5</sup> (Yield)	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Compression Molded)	27	J/m	ASTM D256
Drop Impact Resistance			ASTM D4226
23°C <sup>6</sup>	59.2	J/cm	ASTM D4226
23°C <sup>7</sup>	> 178	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>8</sup>			ASTM D648
0.45 MPa, annealed, 3.18mm	60.7	°C	ASTM D648
1.8 MPa, annealed, 3.18mm	49.9	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Additional Information			
Physical properties based on Geon Bold L5800 LHB Black 2880.			

Extrusion	Nominal Value	Unit
Melt Temperature	149 - 177	°C
Extrusion instructions		
Melt flow, extrusion conditions and downstream calibration likely to be different than standard rigid PVC. Wet vacuum calibration is recommended instead of dry calibration.		
NOTE		
1.	Type 1, 5.1 mm/min	
2.	Type 1, 5.1 mm/min	
3.	Type 1, 5.1 mm/min	
4.	51 mm/min	
5.	51 mm/min	
6.	Procedure a, .125"	
7.	Procedure B, .125"	
8.	Conditioned at 50 deg.C	

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