



# Geon™ Vinyl Rigid Extrusion L4230

## Rigid Polyvinyl Chloride

### Key Characteristics

Product Description			
Extrusion capstock for darker colors. This product is not recommended for horizontal, outdoor applications.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Gloss • High Impact Resistance		
Uses	• Capstock • Construction Applications • Outdoor Applications		
Appearance	• Colors Available		
Forms	• Cube		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.26	1.26	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	325000 psi	2240 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	6100 psi	42.1 MPa	ASTM D638
Flexural Modulus	340000 psi	2340 MPa	ASTM D790
Flexural Strength	9700 psi	66.9 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
50°F (10°C), 0.125 in (3.18 mm), Injection Molded	10 ft·lb/in	530 J/m	
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	18 ft·lb/in	960 J/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 10 sec)	80	80	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) <sup>3</sup>	174 °F	78.9 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) <sup>4</sup>	169 °F	76.1 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded <sup>3</sup>	172 °F	77.8 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded <sup>4</sup>	163 °F	72.8 °C	
CLTE - Flow	4.5E-5 in/in/°F	8.0E-5 cm/cm/°C	ASTM D696

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	390 to 410 °F	199 to 210 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 to 193 °C

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**Notes**

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

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- <sup>2</sup> Type I, 2.0 in/min (51 mm/min)

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- <sup>3</sup> Annealed at 60 deg.C

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- <sup>4</sup> Annealed at 50 deg.C

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