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 [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	325000 psi	2240 MPa	ASTM D638
Tensile Strength [2] (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) [3]	174 °F	78.9 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [4]	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 [3]	172 °F	77.8 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [4]	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

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 2.0 in/min (51 mm/min)

[3] Annealed at 60 deg.C

[4] Annealed at 50 deg.C

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