



Geon™ Vinyl Rigid Extrusion L8230

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Handles	• Profiles	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.35	1.35	ASTM D792
PVC Cell Classification	10341	10341	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	377000 psi	2600 MPa	ASTM D638
Tensile Strength ² (Yield)	6780 psi	46.7 MPa	ASTM D638
Flexural Modulus	470000 psi	3240 MPa	ASTM D790
Flexural Strength	12600 psi	86.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Flow 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.7 ft·lb/in	91 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³	0.520 in·lb/mil	23.1 J/cm	ASTM D4226
73°F (23°C) ⁴	0.520 in·lb/mil	23.1 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	85	85	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	106 °F	41.1 °C	ASTM D648
CLTE - Flow	4.2E-5 in/in/°F	7.6E-5 cm/cm/°C	ASTM D696

Additional Information

Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

Processing Information

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, 0.20 in/min (5.1 mm/min)

³ Procedure A, C.125 Dart

⁴ Procedure B, C.125 Dart

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