



Geon™ Vinyl Rigid Extrusion L6256

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Surface Finish • High Flow		
Uses	• Profiles		
Agency Ratings	• NSF STD-51	• UL 94	
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.40	1.40	ASTM D792
PVC Cell Classification	16364	16364	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	444000 psi	3060 MPa	ASTM D638
Tensile Strength ² (Yield)	6130 psi	42.3 MPa	ASTM D638
Flexural Modulus	386000 psi	2660 MPa	ASTM D790
Flexural Strength	12000 psi	82.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
0°F (-18°C), 0.125 in (3.18 mm), Compression Molded ³	2.2 ft·lb/in	120 J/m	
32°F (0°C), 0.125 in (3.18 mm), Compression Molded ⁴	16 ft·lb/in	880 J/m	
73°F (23°C), 0.125 in (3.18 mm), Compression Molded ⁴	22 ft·lb/in	1200 J/m	
Instrumented Dart Impact ⁵			ASTM D3763
0°F (-18°C), 0.0730 in (1.85 mm), brittle	175 in·lb	19.8 J	
32°F (0°C), 0.0730 in (1.85 mm), brittle	194 in·lb	21.9 J	
73°F (23°C), 0.0730 in (1.85 mm), ductile	222 in·lb	25.1 J	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ⁶	1.50 in·lb/mil	66.7 J/cm	
73°F (23°C) ⁷	> 4.00 in·lb/mil	> 178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	80	80	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	172 °F	77.7 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed	176 °F	80.0 °C	ASTM D648

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)	166 °F	74.5 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed	172 °F	78.0 °C	ASTM D648
CLTE - Flow	3.5E-5 in/in/°F	6.3E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.028 in (0.70 mm), ALL	V-0	V-0	
0.12 in (3.0 mm), ALL	5VA	5VA	
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Good	Good	

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	350 to 370 °F	177 to 188 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ all complete breaks

⁴ all hinge breaks

⁵ 10.8 ft/sec (3.30 m/sec)

⁶ Procedure A, C.125 Dart

⁷ Procedure B, C.125 Dart



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