



Geon™ Vinyl Rigid Extrusion 87262

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Dimensional Stability • Good Melt Strength		
Uses	• Profiles		
Agency Ratings	• NSF STD-51		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	ASTM D792
PVC Cell Classification	16244	16244	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	379000 psi	2610 MPa	ASTM D638
Tensile Strength ² (Yield)	5930 psi	40.9 MPa	ASTM D638
Flexural Modulus	366000 psi	2520 MPa	ASTM D790
Flexural Strength	10600 psi	73.0 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	20 ft·lb/in	1100 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	15 ft·lb/in	810 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	0.810 in·lb/mil	36.0 J/cm	
73°F (23°C) ⁴	0.810 in·lb/mil	36.0 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			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	165 °F	73.9 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.030 in (0.75 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	Excellent	Excellent	

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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