

Geon[™] Vinyl Rigid Extrusion 87727-0284 Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Uses	Capstock	Profiles	 Vertical Blinds
Appearance	Translucent		
Forms	Pellets		
Processing Method	Extrusion		

Technical Properties¹

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hysical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
PVC Cell Classification	11553	11553	ASTM D1784
<i>A</i> echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	416000 psi	2870 MPa	ASTM D638
Tensile Strength ² (Yield)	8250 psi	56.9 MPa	ASTM D638
Flexural Modulus	423000 psi	2920 MPa	ASTM D790
Flexural Strength	13600 psi	93.5 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	3.9 ft·lb/in	210 J/m	
Across Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.65 ft·lb/in	35 J/m	
Flow : 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.30 ft·lb/in	16 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) ³	1.49 in Ib/mil	66.3 J/cm	
73°F (23°C) ⁴	3.94 in·lb/mil	175 J/cm	
lardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	85	85	ASTM D2240
hermal	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)	142 °F	61.1 °C	
CLTE - Flow	3.9E-5 in/in/°F	7.0E-5 cm/cm/°C	ASTM D696
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm), TP)	5VA	5VA	UL 94
Additional Information			

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

Physical property testing was based on the Geon® 87727 Trans 0020.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)	
Melt Temperature	360 to 380 °F	182 to 193 °C	

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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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