



Geon™ Vinyl Rigid Extrusion L7005

Rigid Polyvinyl Chloride

Key Characteristics

Product Description

Geon L7005 is recommended for whites and light pastel colors only. Not recommended for horizontal applications such as railing and decking except in white.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Impact Resistance	• Weather Resistant	
Uses	• Outdoor Applications	• Profiles	• Windows & Doors
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.46	1.46	ASTM D792
PVC Cell Classification	1-42434-33	1-42434-33	ASTM D4216
PVC Cell Classification	15354	15354	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	413000 psi	2850 MPa	ASTM D638
Tensile Strength ² (Yield)	6260 psi	43.2 MPa	ASTM D638
Flexural Modulus	430000 psi	2960 MPa	ASTM D790
Flexural Strength	12300 psi	84.8 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	11 ft·lb/in	590 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴	1.65 in·lb/mil > 4.00 in·lb/mil	73.4 J/cm > 178 J/cm	ASTM D4226
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 ⁵ 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	165 °F	73.9 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁶ 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁵	166 °F 160 °F	74.4 °C 71.1 °C	ASTM D648
CLTE - Flow	3.6E-5 in/in/°F	6.4E-5 cm/cm/°C	ASTM D696
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.030 in (0.75 mm), ALL)	V-0	V-0	UL 94
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Acceptable	Acceptable	

Note: Physical properties based on L7005 tan 3210 sample.

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

⁵ Annealed at 50 deg.C

⁶ Annealed at 60 deg.C



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