



Geon™ Vinyl Rigid Extrusion L4794

Rigid Polyvinyl Chloride

Key Characteristics

Product Description	
Geon L4794 is currently recommended for non-horizontal dark color outdoor profile applications only due to limited data. Exhibits comparable processing to previous Geon L1534 and 85885 type products.	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Features	• Weather Resistant
Uses	• Outdoor Applications • Profiles
Appearance	• Colors Available
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	1-22431-33	1-22431-33	ASTM D4216
PVC Cell Classification	13334	13334	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	328000 psi	2260 MPa	ASTM D638
Tensile Strength ² (Yield)	6370 psi	43.9 MPa	ASTM D638
Flexural Modulus	361000 psi	2490 MPa	ASTM D790
Flexural Strength	11100 psi	76.6 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	1.9 ft·lb/in	100 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴	1.63 in·lb/mil > 4.00 in·lb/mil	72.5 J/cm > 178 J/cm	ASTM D4226
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	77	77	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁵	160 °F	71.0 °C	ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁶	164 °F	73.1 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed ⁷ 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) ⁶	157 °F 158 °F	69.3 °C 69.8 °C	ASTM D648
CLTE - Flow	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	ASTM D696
Additional Information	Typical Value (English)	Typical Value (SI)	
Ease of Sizing	Acceptable	Acceptable	

Note: Physical properties based on L4794 LHB Brown 3481 Lot# 4699345 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 Conditioned at 50 deg.C

⁶ Annealed at 60 deg.C

⁷ Annealed at 50 deg.C



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