



Geon™ Vinyl Dry Blend E7507

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Geon E7507 is recommended for whites and colors above a 60L value only. Performs well in high rate fencing capstock applications. 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	• High Gloss • Medium Impact Resistance		
Uses	• Capstock	• Outdoor Applications	• Profiles
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.46	1.46	ASTM D792
PVC Cell Classification	13444	13444	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	397000 psi	2740 MPa	ASTM D638
Tensile Strength ² (Yield)	7050 psi	48.6 MPa	ASTM D638
Flexural Modulus	438000 psi	3020 MPa	ASTM D790
Flexural Strength	12400 psi	85.2 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	2.7 ft·lb/in	140 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴	1.80 in·lb/mil > 4.00 in·lb/mil	80.1 J/cm > 178 J/cm	ASTM D4226
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	76	76	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	173 °F	78.2 °C	ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁶	175 °F	79.5 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁷	162 °F	72.3 °C	ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁶	172 °F	77.5 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.4E-5 cm/cm/°C	ASTM D696

Additional Information
Physical properties based on Geon E7507 beige 3048 lot# 4701698.

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Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 410 °F	193 to 210 °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 @ 50 deg.C

⁶ Annealed at 60 deg.C

⁷ Conditioned at 50 deg.C

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