Geon™ Vinyl Dry Blend E7506

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Geon E7506 is recommended for whites and light pastel colors only. Performs well in high rate fencing capstock applications.			
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	1.48	1.48	ASTM D792
PVC Cell Classification	16354	16354	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	423000 psi	2920 MPa	ASTM D638
Tensile Strength [2] (Yield)	6300 psi	43.4 MPa	ASTM D638
Flexural Modulus	457000 psi	3150 MPa	ASTM D790
Flexural Strength	12200 psi	84.3 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	2.1 ft·lb/in	110 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.29 in·lb/mil	57.4 J/cm	
73°F (23°C) [4]	1.35 in·lb/mil	60.1 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	78	78	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [5]	172 °F	77.5 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [6]	176 °F	80.0 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [7]	169 °F	75.9 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [6]	173 °F	78.3 °C	
CLTE - Flow	3.4E-5 in/in/°F	6.1E-5 cm/cm/°C	ASTM D696

Additional Information
Physical properties based on Geon E7506 white 1880.

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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