

Techmer ES Electrafil® J-50/CF/20 Polycarbonate, 20% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Carbon Fiber Reinforced

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-50CF20-Polycarbonate-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm @Thickness 3.17 mm	0.00050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	131 MPa	19000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Modulus of Elasticity	12.4 GPa	1800 ksi	ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	23.4 Åµm/m-Å°C @Temperature 20.0 Å°C	13.0 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	149 Å°C	300 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 Å°C	289 Å°F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 ohm - 1e+05	1000 ohm - 1e+05	ASTM D4496

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