

## Techmer ES Electrafil® J-50/CF/30 Polycarbonate, 30% 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-50CF30-Polycarbonate-30-Carbon-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-50CF30-Polycarbonate-30-Carbon-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	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	152 MPa	22000 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	221 MPa	32000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Åµm/m-Å°C @Temperature 20.0 Å°C	10.0 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
Electrical Resistivity	10.0 - 100 ohm-cm	10.0 - 100 ohm-cm	ASTM C611

Surface Resistance Electrical Properties	1000 - 10000 ohm Metric	1000 - 10000 ohm English	ASTM D4496 Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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