

Techmer ES Electrafil[®] J-50/CF/20/TF/15 Polycarbonate, 20% Carbon Fiber Reinforced, 15% PTFE

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon + PTFE Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-50CF20TF15-Polycarbonate-20-Carbon-Fiber-Reinforced-15-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.12 %	0.12 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm @Thickness 3.17 mm	0.0010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	138 MPa	20000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Yield Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	146 $\text{Å}^\circ\text{C}$	295 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	100 ohm-cm - 1e+05	100 ohm-cm - 1e+05	ASTM C611
Surface Resistance	10000 ohm - 1e+05	10000 ohm - 1e+05	ASTM D257

Electrical Properties

Metric

English

Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China