

Techmer ES Electrablend® PA6/6 C BK

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Conductive

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor. Features: Conductive Appearance:

Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA66-C-BK.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.012 cm/cm @Thickness 3.17 mm	0.012 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	4.34 GPa	630 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	199 $\text{Å}^\circ\text{C}$	390 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 $\text{Å}^\circ\text{C}$	280 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+6 ohm-cm	1000 - 1.00e+6 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1000 - 1.00e+6 ohm Metric	1000 - 1.00e+6 ohm English	ASTM D257 Comments
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