

Techmer ES Electrablend® PA6/6 05002

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-PA66-05002.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Tensile Strength, Yield	59.3 MPa	8600 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	1.90 GPa	275 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Thickness 3.17 mm	2.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	224 $\text{Å}^\circ\text{C}$	435 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 $\text{Å}^\circ\text{C}$	160 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 100 ohm-cm	1.0 - 100 ohm-cm	ASTM D257

Electrical Properties

Metric **0 ohm**

English **0 ohm**

Comments

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