

## Techmer ES Electrablend<sup>®</sup> PA6/6 03002 CF Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Carbon Fiber Filled , Nylon 66, Conductive , Nylon 66, Heat Stabilized , Nylon 66, Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber Reinforcement Additive: Lubricant, Impact Modifier and Heat Stabilizer Features: Lubricated, Electrically Conductive, Impact Modified and Heat Stabilized Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrablend-PA66-03002-CF-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA66-03002-CF-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 3.17 mm	0.0070 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	155 MPa	22500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.71 J/cm @Thickness 3.17 mm	3.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	10.1 J/cm @Thickness 3.17 mm	19.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	252 Å°C	485 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 Å°C	428 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 1000 ohm-cm	1.0 - 1000 ohm-cm	ASTM D257
Surface Resistance	1.0 - 1000 ohm	1.0 - 1000 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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