

## Techmer ES Electrablend® PA12 CF13 L 13% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Carbon Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber, 13% Filler by Weight Additive: Lubricant Features: Electrically Conductive and lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrablend-PA12-CF13-L-13-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA12-CF13-L-13-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	103 MPa	15000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	7.24 GPa	1050 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 Åµm/m-Å°C	27.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	160 Å°C	320 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+6 ohm-cm	100 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

## **Contact Songhan Plastic Technology Co.,Ltd.**

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