

## Techmer ES Electrablend® TPX-HTN-01045 A 40% Carbon Filled

Category : Polymer , Thermoplastic , Nylon

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Carbon Fiber Reinforcement, 40% Filler by Weight  
 Additive: Heat Stabilizer and Lubricant  
 Features: Heat Stabilized, High Temperature Strength and Lubricated  
 UL File Number: E157318  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrablend-TPX-HTN-01045-A-40-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-TPX-HTN-01045-A-40-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.22 % @Time 86400 sec	0.22 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	125	125	ASTM D785
Tensile Strength, Yield	310 MPa	45000 psi	ASTM D638
Elongation at Yield	1.3 %	1.3 %	ASTM D638
Flexural Yield Strength	455 MPa	66000 psi	ASTM D790
Flexural Modulus	31.0 GPa	4500 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 Åµm/m-Å°C	19.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	282 Å°C	540 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257

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

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