

## Techmer ES Electrablend® PA6/6 03005 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-PA66-03005-CF-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA66-03005-CF-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.90 %	0.90 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	105 MPa	15200 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	5.69 GPa	825 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Izod Impact, Unnotched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	79.2 µm/m-°C	44.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	252 °C	485 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 A °C	420 A °F	Unannealed; ASTM D548

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ASTM D257
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China