

## Techmer ES Electrablend® PA6/6 03004 GF20 Carbon/20% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Carbon Fiber Reinforcement/Glass Fiber Reinforcement, 20% Filler by Weight  
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-PA66-03004-GF20-Carbon20-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA66-03004-GF20-Carbon20-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 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	0.0050 cm/cm	0.0050 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	162 MPa	23500 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	10.1 J/cm	19.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	252 $\text{Å}^\circ\text{C}$	485 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 - 1.00e+8 ohm-cm	1000 - 1.00e+8 ohm-cm	ASTM D257
Surface Resistance	1000 - 1.00e+8 ohm	1000 - 1.00e+8 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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