

## Techmer ES Electrablend® ABS SS10 FR BK 10% Stainless Steel Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Stainless Steel Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Stainless Steel Fiber, 10% Filler by Weight Features: Flame Retardant and Electromagnetic Shielding (EMI) Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrablend-ABS-SS10-FR-BK-10-Stainless-Steel-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-ABS-SS10-FR-BK-10-Stainless-Steel-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @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
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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

Static Decay Electrical Properties	$\leq 0.10$ sec Metric	$\leq 0.10$ sec English	FTMS 101B Comments
Shielding Effectiveness	40 dB	40 dB	ASTM D4935

## Contact Songhan Plastic Technology Co.,Ltd.

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