

## PolyOne Edgetek® ES-06CF-09GF/000 RED Polyethersulfone - 6% Carbon - 9% Glass Fiber Reinforced - ESD Applications &

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), Glass + Carbon Fiber Filled

### Material Notes:

Data provided by PolyOne.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-ES-06CF-09GF000-RED-Polyethersulfone-6-Carbon-9-Glass-Fiber-Reinforced-ESD-Applications-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ES-06CF-09GF000-RED-Polyethersulfone-6-Carbon-9-Glass-Fiber-Reinforced-ESD-Applications-.php)

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.38 %	0.38 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Tensile Strength, Ultimate	117 MPa	17000 psi	ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 6.35 mm	0.899 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
Flammability, UL94	V-0	V-0	IN HOUSE TEST V-0

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10000 ohm-cm - 1e+05	10000 ohm-cm - 1e+05	ASTM D257
Surface Resistance	1e+05 - 5.00e+7 ohm	1e+05 - 5.00e+7 ohm	ASTM D257

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	354 - 382 °C Metric	669 - 720 °F English	Stock Comments
Mold Temperature	93.0 - 121 °C	199 - 250 °F	
Drying Temperature	135 - 149 °C	275 - 300 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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