

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

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ES-06CF-09GF000-GREEN-Polyethersulfone-6-Carbon-9-Glass-Fiber-Reinforced-ESD-Applications-am.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Water Absorption	0.40 % @Thickness 3.17 mm	0.40 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	131 MPa	19000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm - 1e+05	10000 ohm-cm - 1e+05	ASTM D257
Surface Resistivity per Square	1e+05 - 1.00e+7 ohm	1e+05 - 1.00e+7 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 382 °C	670 - 720 °F	Molding

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