

PolyOne Edgetek® ES-20GF-15GM/000 Polyethersulfone - 20% Glass Fiber - 15% Milled Glass (discontinued **)

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-20GF-15GM000-Polyethersulfone-20-Glass-Fiber-15-Milled-Glass-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0035 cm/cm @Thickness 3.17 mm	0.0030 - 0.0035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	131 MPa	19000 psi	ASTM D638
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	ASTM D638
Tensile Modulus	6.90 GPa	1000 ksi	ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.640 - 0.960 J/cm @Thickness 6.35 mm	1.20 - 1.80 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.92 µm/m-°C @Temperature 20.0 °C	14.40 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	211 °C	412 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	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	135 - 149 °C	275 - 300 °F	
Drying Temperature	135 - 149 °C	275 - 300 °F	

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