

PolyOne Edgetek® ES-40CF/000 Polyethersulfone - 40% Carbon Fiber Reinforced (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-40CF000-Polyethersulfone-40-Carbon-Fiber-Reinforced-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.30 % @Thickness 3.17 mm	0.30 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	221 MPa	32000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	22.1 GPa	3200 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	296 MPa	43000 psi	ASTM D790
Flexural Modulus	22.1 GPa	3200 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	2.00 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	371 - 399 °C	700 - 750 °F	Molding

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