

PolyOne Edgetek® ES-30GF/000 PES (Polyethersulfone), 30% Glass Reinforced, Hi-Temp (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 30%Glass Fiber Filled

Material Notes:

Information provided by PolyOne™ Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ES-30GF000-PES-Polyethersulfone-30-Glass-Reinforced-Hi-Temp-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Water Absorption	0.35 % @Thickness 3.17 mm	0.35 % @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	140 MPa	20300 psi	Type 1 - Rigids, 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	8.96 GPa	1300 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	190 MPa	27500 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	Method A, Injection Molded, 0.125 in bars, 73°F; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	Unannealed, 0.125 in bars; ASTM D648

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

Descriptive Properties	Value	Comments
Processing Method	Injection Molding	

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