

PolyOne Edgetek® ES-30GF/000 Black Polyethersulfone (PESU)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Edgetek™ ES-30GF/000 Black XP120031 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ES-30GF000-Black-Polyethersulfone-PESU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0025 cm/cm	0.0010 - 0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	131 MPa	19000 psi	5.1 mm/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	197 MPa	28600 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.80 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C @Thickness 3.18 mm	419 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C @Thickness 3.18 mm	401 °F @Thickness 0.125 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	340 - 380 °C	644 - 716 °F	
Mold Temperature	140 - 160 °C	284 - 320 °F	

Drying Temperature Processing Properties	150 - 160 °C Metric	302 - 320 °F English	Comments
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Features	General Purpose	
	Good Chemical Resistance	
	Good Dimensional Stability	
	Good Strength	
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PESU	
Generic Name	Polyethersulfone (PESU)	
Processing Method	Injection Molding	
Regional Availability	Asia Pacific	
Uses	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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