

PolyOne Edgetek® ES-20GF/000 Polyethersulfone, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Description/Features:Glass Fiber ReinforcedInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ES-20GF000-Polyethersulfone-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Tensile Strength, Ultimate	124 MPa	18000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	5.86 GPa	850 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.40 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.9 µm/m-°C @Temperature 20.0 °C	14.4 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257

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