

PolyOne Edgetek® SF- 10GF/000 Polyphenylene Sulfide (PPS), Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Description/Features:Glass Fiber ReinforcedPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-SF-10GF000-Polyphenylene-Sulfide-PPS-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.406 g/cc	1.406 g/cc	ASTM D792
Water Absorption	0.050 %	0.050 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0055 cm/cm	0.0050 - 0.0055 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	68.9 MPa	10000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	5.52 GPa	800 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	177 °C	350 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 316 °C	550 - 600 °F	Molding
Mold Temperature	>= 135 °C	>= 275 °F	
Drying Temperature	135 °C	275 °F	

Dry Time Processing Properties	2 hour Metric	2 hour English	Comments
Descriptive Properties	Value		Comments
Product Form	Pellets		

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