

PolyOne Edgetek® SF-20GF/000 Polyphenylene Sulfide (PPS), Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Description/Features: Glass Fiber Reinforced PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-SF-20GF000-Polyphenylene-Sulfide-PPS-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	97.9 MPa	14200 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	8.446 GPa	1225 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	139.6 MPa	20250 psi	ASTM D790
Flexural Modulus	7.412 GPa	1075 ksi	ASTM D790
Izod Impact, Notched	0.635 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.19 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	28.8 µm/m-°C @Temperature 20.0 °C	16.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	249 °C	480 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 343 °C	600 - 650 °F	Molding
Mold Temperature	37.8 - 149 °C	100 - 300 °F	

Processing Properties	Metric	English	Comments
Dry Time	6 hour	6 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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