

## PolyOne Edgetek® SF-30CF/000 Polyphenylene Sulfide (PPS), Carbon Fiber Reinforced (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

Description/Features: Carbon Fiber Reinforced UL 94 V0 PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-SF-30CF000-Polyphenylene-Sulfide-PPS-Carbon-Fiber-Reinforced-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-SF-30CF000-Polyphenylene-Sulfide-PPS-Carbon-Fiber-Reinforced-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	179 MPa	26000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	22.8 GPa	3300 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	20.7 GPa	3000 ksi	ASTM D790
Compressive Strength	190 MPa	27500 psi	ASTM D695
Izod Impact, Notched	0.694 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.30 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 µm/m-°C @Temperature 20.0 °C	6.00 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	4.00 W/m-K	27.8 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	263 °C	505 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1000 ohm-cm Metric	1000 ohm-cm English	ASTM D257 Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	316 °C	600 °F	Molding
Drying Temperature	121 °C	250 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

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