

PolyOne Edgetek® SF-40CF/000 Polyphenylene Sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-SF-40CF000-Polyphenylene-Sulfide-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Water Absorption	0.030 % @Thickness 3.18 mm	0.030 % @Thickness 0.125 in	@ 24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	200 MPa	29000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	31.0 GPa	4500 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	296 MPa	42900 psi	ASTM D790
Flexural Modulus	27.6 GPa	4000 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.41 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	263 °C @Thickness 3.18 mm	505 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	304 - 332 °C	579 - 630 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	

Descriptive Properties	Value High Heat Resistance	Comments
Filler / Reinforcement	Carbon Fiber Reinforcement, 40% Filler by Weight	
Forms	Pellets	
Generic Material	PPS	
Generic Name	Polyphenylene Sulfide (PPS)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China