

PolyOne Edgetek® SF2-40CF/000 NATURAL 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-SF2-40CF000-NATURAL-Polyphenylene-Sulfide-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.00020 - 0.00080 cm/cm @Thickness 3.18 mm	0.00020 - 0.00080 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.00040 - 0.00080 cm/cm @Thickness 3.18 mm	0.00040 - 0.00080 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 MPa	30000 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	5.1 mm/min; ASTM D638
Tensile Modulus	30.5 GPa	4420 ksi	5.1 mm/min; ASTM D638
Flexural Strength	283 MPa	41000 psi	ASTM D790
Flexural Modulus	25.8 GPa	3740 ksi	ASTM D790
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	272 °C	522 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	High Heat Resistance	
	High Rigidity	
	Linear Polymer Structure	
	Semi Crystalline	
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	Aerospace Applications	
	Aircraft Applications	
	Automotive Applications	
	High Temperature Applications	
	Industrial Applications	

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