

PolyOne Edgetek® PF-05GF/000 FR MR Polysulfone (PSU)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

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-PF-05GF000-FR-MR-Polysulfone-PSU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.50 % @Thickness 3.18 mm	0.50 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.9 MPa	9990 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	10 %	10 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	3.10 GPa	450 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Modulus	0.103 GPa	14.9 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.11 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)	166 °C @Thickness 3.18 mm	331 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 382 °C	649 - 720 °F	
Mold Temperature	135 - 149 °C	275 - 300 °F	

Processing Properties	Metric ^{275, 349 °C}	English ^{275, 500 °F}	Comments
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 5.0% Filler by Weight	
Forms	Pellets	
Generic Material	PSU	
Generic Name	Polysulfone (PSU)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	

Contact Songhan Plastic Technology Co.,Ltd.

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