

PolyOne Edgetek® PF-20GF/000 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-20GF000-Polysulfone-PSU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	@ 24 hrs; ASTM D570
Water Absorption at Saturation	0.60 %	0.60 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Tensile Strength at Break	103 MPa	14900 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	5.52 GPa	801 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	5.52 GPa	801 ksi	ASTM D790
Compressive Strength	138 MPa	20000 psi	ASTM D695
Shear Strength	62.7 MPa	9090 psi	ASTM D732
Izod Impact, Notched	0.690 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C	16.1 µin/in-°F	ASTM D696

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	179 °C @Thickness 3.18 mm	354 °F @Thickness 0.125 in	Annealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	338 - 371 °C	640 - 700 °F	
Mold Temperature	93.3 - 149 °C	200 - 300 °F	
Drying Temperature	135 °C	275 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	PSU	
Generic Name	Polysulfone (PSU)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	South America	
RoHS Compliance	RoHS Compliant	

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