



## Edgetek™ PF-05GF/000 FR MR Polysulfone

### Key Characteristics

#### Product Description

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.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30	ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.50 %	0.50 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	450000 psi	3100 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	10000 psi	68.9 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10 %	10 %	ASTM D638
Flexural Modulus	15000 psi	103 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	1.1 ft·lb/in	59 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	330 °F	166 °C	ASTM D648
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	V-0	V-0	UL 94

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	275 to 300 °F	135 to 149 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	650 to 720 °F	343 to 382 °C
Mold Temperature	275 to 300 °F	135 to 149 °C

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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