

# Edgetek™ PF-05GF/000 FR MR

Polysulfone

PolyOne Corporation

## Message:

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 Information			
UL YellowCard	E76261-101413501		
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	3100	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	68.9	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	10	%	ASTM D638
Flexural Modulus	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	59	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	166	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	135 to 149	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	343 to 382	°C	
Mold Temperature	135 to 149	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

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Recommended distributors for this material

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