

Edgetek™ SF-40CF/000

Polyphenylene Sulfide

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			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	General Purpose		
	High Heat Resistance		
Uses	Automotive Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.050 to 0.10	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	31000	MPa	ASTM D638
Tensile Strength ² (Yield)	200	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	27600	MPa	ASTM D790
Flexural Strength	296	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	75	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	263	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	304 to 332	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		

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