

# Edgetek™ SF2-40CF/000 NATURAL

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	Good Chemical Resistance		
	High Heat Resistance		
	High Rigidity		
	Linear Polymer Structure		
	Semi Crystalline		
Uses	Aerospace Applications		
	Aircraft Applications		
	Automotive Applications		
	High Temperature Applications		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.020 to 0.080	%	
Across Flow : 3.18 mm	0.040 to 0.080	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	30500	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	207	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	25800	MPa	ASTM D790
Flexural Strength	283	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	272	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Processing (Melt) Temp	304 to 332	°C	
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	5.1 mm/min		

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#### Recommended distributors for this material

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