



Edgetek™ SF-10CF/000 BK001

Polyphenylene Sulfide

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 6.0E-3 in/in	0.20 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	14500 psi	100 MPa	ASTM D638
Flexural Modulus ³	1.23E+6 psi	8500 MPa	ASTM D790
Flexural Strength ³	22500 psi	155 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	0.75 ft·lb/in	40 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	446 °F	230 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+3 to 1.0E+8 ohms	1.0E+3 to 1.0E+8 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0630 in (1.60 mm))	V-0	V-0	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	284 to 302 °F	140 to 150 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	608 to 626 °F	320 to 330 °C
Middle Temperature	608 to 626 °F	320 to 330 °C
Front Temperature	608 to 626 °F	320 to 330 °C
Mold Temperature	284 to 320 °F	140 to 160 °C
Injection Notes		
Injection Pressure: MED-HIGH		
Hold Pressure: MED-HIGH		
Screw Speed: MODERATE		
Back Pressure: LOW		

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Notes¹ Typical values are not to be construed as specifications.² 0.20 in/min (5.0 mm/min)³ 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake
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