



## Edgetek™ SF-40GF/000L HS Black 70

### Polyphenylene Sulfide

#### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Good Heat Resistance	• Good Processability	• Good Strength
	• Good Impact Resistance	• Good Stiffness	• Heat Stabilized
Uses	• Appliances	• Electrical/Electronic Applications	• Industrial Applications
	• Consumer Applications	• General Purpose	
Appearance	• Black		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.65 g/cm <sup>3</sup>	1.65 g/cm <sup>3</sup>	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.25E+6 psi	15500 MPa	ISO 527-2/1
Tensile Stress	23200 psi	160 MPa	ISO 527-2/5
Tensile Strain (Break)	1.5 %	1.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	3.3 ft-lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	572 to 626 °F	300 to 330 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12

#### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 to 284 °F	120 to 140 °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	617 to 635 °F	325 to 335 °C
Front Temperature	626 to 644 °F	330 to 340 °C
Nozzle Temperature	635 to 653 °F	335 to 345 °C
Mold Temperature	275 to 311 °F	135 to 155 °C

#### Notes

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