



Edgetek™ SF-40GF/000L HS Black Polyphenylene Sulfide

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Heat Stabilized
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.64 to 1.68 g/cm ³	1.64 to 1.68 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.15E+6 psi	14800 MPa	ISO 527-2
Tensile Stress	23200 psi	160 MPa	ISO 527-2
Tensile Strain (Break)	1.6 %	1.6 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	3.3 ft·lb/in ²	6.9 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Melting Temperature (DSC)	572 to 626 °F	300 to 330 °C	ISO 3146
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	UL 94

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
Processing (Melt) Temp	599 to 644 °F	315 to 340 °C
Mold Temperature	275 to 311 °F	135 to 155 °C

Notes

¹ Typical values are not to be construed as specifications.