



# Stat-Tech™ AS-08CF/000 UV FR V0

## Acrylonitrile Butadiene Styrene

### Key Characteristics

#### Product Description

Stat-Tech™ Electrically Conductive Compounds are specifically engineered to provide anti-static, ESD and RFI/EMI shielding performance for critical electronic equipment applications. These compounds combine the performance of select engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber, for low-to-high levels of conductivity depending upon application requirements.

#### General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Carbon Fiber Reinforcement, 8.0% Filler by Weight		
Features	• Antistatic • Electromagnetic Shielding (EMI)	• ESD Protection • Radio Frequency Shielding (RFI)	
Uses	• Aerospace Applications • Automotive Under the Hood	• Business Equipment • Electrical/Electronic Applications	• Housings • Printer Parts
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.30	1.30 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.0030 in/in	0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	700000 psi	4830 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	9500 psi	65.5 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.0 %	2.0 %	ASTM D638
Flexural Modulus	680000 psi	4690 MPa	ASTM D790
Flexural Strength	12000 psi	82.7 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	0.80 ft-lb/in	43 J/m	ASTM D256A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+7 ohm	1.0E+7 ohm	ASTM D257
Volume Resistivity	1.0E+6 ohm-cm	1.0E+6 ohm-cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm), BK)	V-0	V-0	Internal Method

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	170 °F	76.7 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	430 to 480 °F	221 to 249 °C

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Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	80.0 to 130 °F	26.7 to 54.4 °C

**Notes**

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

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

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