

**Stat-Tech™ AS-XC588 BLU 436C****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 • Latin America	• North America
Features	• Electrically Conductive		
Uses	• Electrical/Electronic Applications		
Forms	• Pellets		
Processing Method	• Injection Molding		

**Technical Properties <sup>1</sup>**

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.12	1.12	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	440000 psi	3030 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	8700 psi	60.0 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	4.0 %	4.0 %	ASTM D638
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	0.94 ft·lb/in	50 J/m	ASTM D256A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5 ohms	1.0E+3 to 1.0E+5 ohms	ASTM D257

**Processing Information**

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	199 °F	93.0 °C
Drying Time	2.0 hr	2.0 hr
Rear Temperature	426 to 460 °F	219 to 238 °C
Middle Temperature	415 to 450 °F	213 to 232 °C
Front Temperature	405 to 441 °F	207 to 227 °C
Nozzle Temperature	415 to 450 °F	213 to 232 °C
Processing (Melt) Temp	410 to 460 °F	210 to 238 °C
Mold Temperature	151 to 180 °F	66.0 to 82.0 °C

**Notes**

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

<sup>2</sup> 0.20 in/min (5.0 mm/min)

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