



Stat-Tech™ AS-10CF/000 FR BK004

Acrylonitrile Butadiene Styrene

Key Characteristics

Product Description	
Carbon Fiber Reinforced ABS, flame retardant V-0	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Features	• Conductive
Uses	• Aerospace Applications • Computer Components • Electrical/Electronic Applications • Automotive Electronics • Connectors • Business Equipment • Electrical Housing • Housings
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength	13100 psi	90.0 MPa	ASTM D638
Flexural Modulus	1.10E+6 psi	7570 MPa	ASTM D790
Flexural Strength	20300 psi	140 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	0.84 ft-lb/in	45 J/m	ASTM D256
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	212 °F	100 °C	ASTM D648
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
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	176 to 185 °F	80 to 85 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

Notes

¹ Typical values are not to be construed as specifications.