

Stat-Tech™ AS-1000 AS Acrylonitrile Butadiene Styrene

Key Characteristics

Product Description

Stat-TechTM 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	Japan Spirit		
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	Antistatic	 Non-Sloughing 	
Uses	Aerospace ApplicationsAutomotive ElectronicsBusiness Equipment	Computer ComponentsConnectorsElectrical Housing	Electrical/Electronic ApplicationsHousings
RoHS Compliance	 RoHS Compliant 		
Forms	 Pellets 		
Processing Method	 Injection Molding 		

Technical Properties 1

Typical Value (English)	Typical Value (SI)	Test Method
1.06	1.06	ASTM D792
8.5 g/10 min	8.5 g/10 min	ASTM D1238
4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Typical Value (English)	Typical Value (SI)	Test Method
282000 psi	1940 MPa	ASTM D638
5070 psi	35.0 MPa	ASTM D638
12 %	12 %	ASTM D638
3.00E+6 psi	20700 MPa	ASTM D790
8680 psi	59.8 MPa	ASTM D790
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D256A
4.0 ft·lb/in	210 J/m	
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D648
189°F	87.0 °C	
		ASTM D648
165 °F	74.0 °C	
Typical Value (English)	Typical Value (SI)	Test Method
1.0E+11 to 1.0E+12	1.0E+11 to 1.0E+12 ohms	ASTM D257
1.0E+11 to 1.0E+12 ohms⋅cm	1.0E+11 to 1.0E+12 ohms·cm	ASTM D257
	1.06 8.5 g/10 min 4.0E-3 to 6.0E-3 in/in 4.0E-3 to 6.0E-3 in/in Typical Value (English) 282000 psi 5070 psi 12 % 3.00E+6 psi 8680 psi Typical Value (English) 4.0 ft·lb/in Typical Value (English) 189 °F 165 °F Typical Value (English) 1.0E+11 to 0hms	1.06 8.5 g/10 min 8.5 g/10 min 4.0E-3 to 6.0E-3 in/in 0.40 to 0.60 % 4.0E-3 to 6.0E-3 in/in 0.40 to 0.60 % Typical Value (English) 282000 psi 1940 MPa 5070 psi 35.0 MPa 12 % 12 % 3.00E+6 psi 20700 MPa 8680 psi 59.8 MPa Typical Value (English) Typical Value (SI) 4.0 ft·lb/in 210 J/m Typical Value (English) Typical Value (SI) 189 °F 87.0 °C Typical Value (English) Typical Value (SI) 1.0E+11 to 1.0E+12 ohms 1.0E+11 to ohms 1.0E+11 to ohms

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Technical Data Sheet

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Static Decay			
(Mil-B-81705C), 12% RH, 5000 kV to 50 kV	0.3 sec	0.3 sec	
(Mil-B-81705C), 50% RH, 5000 kV to 50 kV	0.1 sec	0.1 sec	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	440 to 460 °F	227 to 238 °C

Notes

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¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)