Stat-Tech™ ST6200-5001 X2

Polyamide 12

Key Characteristics

Product Description
Stat-Tech™ is an electrically conductive formulation engineered to protect critical electronics from electrostatic discharge (ESD) and electromagnetic and radio frequency interference (EMI/RFI). These formulations combine selected engineering resins with reinforcing additives such as carbon powder, carbon fiber, nickel-coated carbon fiber and stainless steel fiber, to provide the precise level of electrical conductivity required for your application. Injection moldable Stat-Tech material can replace aluminum, or the costly processes associated with conductive painting or vacuum metallization, while achieving comparable performance.

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Europe	
Features	• Electrically Conductive		
Uses	• Appliance Components • Automotive Applications • Business Equipment	• Consumer Applications • Conveyor Parts • Industrial Applications	• Printer Parts • Pulleys • Rollers
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.06 g/cm³	1.06 g/cm³	ISO 1183
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	189000 psi	1300 MPa	ISO 527
Tensile Strength (Break)	5220 psi	36.0 MPa	ISO 527
Tensile Elongation (Break, 73°F (23°C))	12 %	12 %	ISO 527
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded, Complete Break	24 ft·lb/in²	50 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C), Injection Molded	No Break	No Break	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+5 to 1.0E+7 ohms	1.0E+5 to 1.0E+7 ohms	IEC 60093

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	482 to 518 °F	250 to 270 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

[1] Typical values are not to be construed as specifications.

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