



Stat-Tech™ NY-10GF/20GB AS

Polyamide 6

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	• Europe
Filler / Reinforcement	• Glass Bead, 20% Filler by Weight • Glass Fiber, 10% Filler by Weight
Features	• Antistatic
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.32 g/cm ³	1.32 g/cm ³	ISO 1183
K-Value ²	72.0 to 78.0	72.0 to 78.0	ISO 1628-2
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	580000 psi	4000 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	10200 psi	70.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	4.0 %	4.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	374 °F	190 °C	ISO 75-2/A
Maximum Use Temperature continuous (GTP 50% tensile) short time	212 °F 374 °F	100 °C 190 °C	IEC 216
Melting Temperature (DSC) ³	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+10 to 1.0E+12 ohms	1.0E+10 to 1.0E+12 ohms	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Notes

¹ Typical values are not to be construed as specifications.

² 96% H₂SO₄

³ 10 K/min.