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/cm³	1.32 g/cm³	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/in²	4.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	19 ft·lb/in²	40 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	410 °F	210 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	374 °F	190 °C	
Maximum Use Temperature			
continuous (GTP 50% tensile)	212 °F	100 °C	IEC 216
short time	374 °F	190 °C	
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.

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