



# 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 <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.32 g/cm <sup>3</sup>	1.32 g/cm <sup>3</sup>	ISO 1183
K-Value <sup>2</sup>	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 <sup>2</sup>	4.0 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in <sup>2</sup>	40 kJ/m <sup>2</sup>	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) <sup>3</sup>	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	

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 96% H<sub>2</sub>SO<sub>4</sub><sup>3</sup> 10 K/min.**CONTACT INFORMATION****Americas**United States - Avon Lake  
+1 440 930 1000United States - McHenry  
+1 815 385 8500**Asia**China - Guangzhou  
+86 20 8732 7260China - Shenzhen  
+86 755 2969 2888China - Suzhou  
+86 512 6823 24 38China - Suzhou  
+86 512 6265 2600Hong Kong -  
+852 2690 5332Taiwan - Yonghe City,  
+886 9396 99740, +886 2929 1849**Europe**Germany - Gaggenau  
+49 7225 6802 0Spain - Barbastro (Huesca)  
+34 974 310 314*Beyond Polymers.**Better Business Solutions.™*

www.polyone.com

**PolyOne Americas**33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000  
+1 866 POLYONE**PolyOne Asia**No. 88 Guoshoujing Road  
Z.J Hi-tech Park, Pudong  
Shanghai, 201203, China  
+86 21 5080 1188**PolyOne Europe**6 Giällewee  
+352 269 050 35

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