



# Stat-Tech™ NY-30GB/000 AS BK

## 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, 30% 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))                                             | 1.35 g/cm <sup>3</sup>     | 1.35 g/cm <sup>3</sup>     | ISO 1183    |
| Molding Shrinkage <sup>2</sup><br>73°F (23°C), 0.157 in (4.00 mm) | 1.2 to 2.0 %               | 1.2 to 2.0 %               | ISO 294-4   |
| Mechanical                                                        | Typical Value (English)    | Typical Value (SI)         | Test Method |
| Tensile Modulus<br>73°F (23°C), 0.157 in (4.00 mm)                | 508000 psi                 | 3500 MPa                   | ISO 527-2/1 |
| Tensile Stress<br>Break, 73°F (23°C), 0.157 in (4.00 mm)          | 7980 psi                   | 55.0 MPa                   | ISO 527-2/5 |
| Tensile Strain<br>Break, 73°F (23°C), 0.157 in (4.00 mm)          | 4.0 %                      | 4.0 %                      | ISO 527-2/5 |
| Impact                                                            | Typical Value (English)    | Typical Value (SI)         | Test Method |
| Charpy Notched Impact<br>Strength (73°F (23°C))                   | 1.7 ft·lb/in <sup>2</sup>  | 3.5 kJ/m <sup>2</sup>      | ISO 179     |
| Charpy Unnotched Impact Strength<br>73°F (23°C)                   | 17 ft·lb/in <sup>2</sup>   | 35 kJ/m <sup>2</sup>       | ISO 179     |
| Thermal                                                           | Typical Value (English)    | Typical Value (SI)         | Test Method |
| Maximum Use Temperature<br>continuous (GTP 50% tensile)           | 212 °F                     | 100 °C                     | IEC 216     |
| short time                                                        | 374 °F                     | 190 °C                     |             |
| 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<br>1.0E+12 ohms | 1.0E+10 to<br>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> Bergmann method<sup>3</sup> 10 K/min.**CONTACT INFORMATION****Americas**United States - Avon Lake  
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