

Electrafil® PA6 GF30 AS BK

Polyamide 6

Techmer Engineered Solutions

Message:

Electrafil® PA6 GF30 AS BK is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: antistatic.

| General Information | | | |
|-------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight | | |
| Additive | Antistatic | | |
| Features | Antistatic | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.31 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.30 | % | ASTM D955 |
| Water Absorption (24 hr) | 1.3 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 118 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 148 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.4 | % | ASTM D638 |
| Flexural Modulus | 8270 | MPa | ASTM D790 |
| Flexural Strength | 186 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 150 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 210 | °C | |
| 1.8 MPa, Unannealed | 204 | °C | |
| CLTE - Flow | 1.6E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+9 to 1.0E+11 | ohms · cm | ASTM D257 |
| Dielectric Strength ¹ | 16 | kV/mm | ASTM D149 |
| NOTE | | | |

1. Method A (Short-Time)

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