

Electrafil® J-1/CF/10/TF/13/SI/2

Polyamide 66

Techmer Engineered Solutions

Message:

Electrafil® J-1/CF/10/TF/13/SI/2 is a polyamide 66 (nylon 66) product containing a 10% carbon fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Features include:

ROHS certification

Lubrication

| General Information | | | |
|---|--|-------------------|-------------|
| Filler / Reinforcement | Carbon fiber reinforced material, 10% filler by weight | | |
| Additive | PTFE lubricant (13%) | | |
| | Silicone lubricant (2%) | | |
| Features | Lubrication | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.25 | g/cm ³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 131 | MPa | ASTM D638 |
| Flexural Modulus (23°C) | 7580 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 179 | MPa | ASTM D790 |
| Compressive Strength | 138 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 32 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 246 | °C | ASTM D648 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Suggested Max Moisture | 0.10 | % | |
| Rear Temperature | 288 - 299 | °C | |
| Middle Temperature | 293 - 304 | °C | |
| Front Temperature | 282 - 293 | °C | |
| Nozzle Temperature | 277 - 288 | °C | |
| Processing (Melt) Temp | 293 - 304 | °C | |
| Mold Temperature | 79.4 - 104 | °C | |

| | | |
|------------------------|----------|-----|
| Injection Rate | Moderate | |
| Back Pressure | 0.345 | MPa |
| Injection instructions | | |

Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less.

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Recommended distributors for this material

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