

Electrafil® PC-50/EC

Polycarbonate

Techmer Engineered Solutions

Message:

Electrafil® PC-50/EC is a polycarbonate (PC) product. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Electrafil® The application fields of PC-50/EC include packaging, engineering/industrial accessories, automobile industry, commercial/office supplies and conveyor belts.

Features include:

flame retardant/rated flame

ROHS certification

Conductivity

carbon black

| General Information | | | |
|---|------------------------|-------------------|-------------|
| Additive | Carbon black | | |
| Features | Conductivity | | |
| | Antistatic property | | |
| Uses | Packaging | | |
| | Bushing | | |
| | Conveyor accessories | | |
| | Automotive Electronics | | |
| | Business equipment | | |
| RoHS Compliance | RoHS compliance | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.21 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.50 | % | ASTM D955 |
| Water Absorption (24 hr) | 0.15 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 58.6 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 6.0 | % | ASTM D638 |
| Flexural Modulus (23°C) | 2620 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 96.5 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 80 | J/m | ASTM D256 |
| Unnotched Izod Impact (23°C, 3.18 mm) | 1100 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 121 | °C | ASTM D648 |

| Electrical | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Surface Resistivity | 5.5E+3 | ohms | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm) | V-2 | | UL 94 |
| Additional Information | | | |
| Surface Resistivity, ASTM D4496: 1E3-1E4 ohmsStatic Decay Rate, DSM Test Method: 0.05 sec | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 121 | °C | |
| Drying Time | 4.0 | hr | |
| Suggested Max Moisture | 0.050 | % | |
| Rear Temperature | 277 - 288 | °C | |
| Middle Temperature | 288 - 299 | °C | |
| Front Temperature | 282 - 293 | °C | |
| Nozzle Temperature | 282 - 293 | °C | |
| Processing (Melt) Temp | 277 - 293 | °C | |
| Mold Temperature | 54.4 - 82.2 | °C | |
| Injection Rate | Moderate | | |
| Back Pressure | 0.345 - 0.689 | 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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