

Lion Idemitsu Composites PPS G561F1

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

Message:

Lion Idemitsu Composites PPS G561F1 is a Polyphenylene Sulfide (PPS) product filled with 60% glass fiber. It is available in Asia Pacific.

Characteristics include:

Flame Rated

Lubricated

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,60% Filler by Weight | | |
| Additive | PTFE Lubricant | | |
| Features | Lubricated | | |
| Appearance | Black | | |
| Part Marking Code (ISO 11469) | >PPS+PTFE-GF60< | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.94 | g/cm ³ | ISO 1183 |
| Molding Shrinkage ¹ | | | ISO 294-4 |
| Across Flow | 0.45 | % | |
| Flow | 0.35 | % | |
| Water Absorption (23°C, 24 hr) | > 0.020 | % | ISO 62 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 97 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 179 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 1.0 | % | ISO 527-2 |
| Flexural Modulus | 23800 | MPa | ISO 178 |
| Flexural Stress | 283 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength | 9.9 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 279 | °C | ISO 75-2/A |
| CLTE | | | ISO 11359-2 |
| Flow | 1.2E-5 | cm/cm/°C | |
| Transverse | 3.4E-5 | cm/cm/°C | |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+16 | ohms · cm | ASTM D257 |
| Electric Strength (3.00 mm) | 16 | kV/mm | IEC 60243-1 |
| Dielectric Constant | 4.60 | | IEC 60250 |
| Dissipation Factor | 2.3E-3 | | IEC 60250 |

| Flammability | Nominal Value | Unit | Test Method |
|------------------------------------|---------------|------|-----------------|
| Flame Rating (1.50 mm) | V-0 | | UL 94 |
| Additional Information | Nominal Value | Unit | Test Method |
| Flowability ² (1.00 mm) | 102 | mm | Internal Method |

NOTE

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|----|--|
| 1. | Internal Method |
| 2. | Thickness 1mm, Cylinder temperature 320°C, Injection pressure 100MPa, Mold temperature 135°C |

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