

Thermec™ 4150R50

Polyphenylene Sulfide
Technical Polymers, LLC

Message:

Thermec™4150R50 is a polyphenylene sulfide (PPS) material, which contains a 50% glass fiber reinforced material. This product is available in North America and is processed by injection molding. Thermec™The main characteristics of 4150R50 are: flame retardant/rated flame.

| General Information | | | |
|---|---|---------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 50% filler by weight | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.77 | g/cm³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (23°C) | 165 | MPa | ASTM D638 |
| Tensile Elongation (Break, 23°C) | 1.0 | % | ASTM D638 |
| Flexural Modulus (23°C) | 17900 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 252 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 80 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 266 | °C | ASTM D648 |
| Melting Temperature | 280 | °C | DSC |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+13 | ohms·cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Additional Information | | | |
| Volum Resistivity, ASTM D257: > 1e13 ohm-cm | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 135 - 149 | °C | |
| Drying Time | 2.0 - 4.0 | hr | |
| Processing (Melt) Temp | 316 - 343 | °C | |
| Mold Temperature | 135 - 149 | °C | |
| Injection Rate | Moderate-Fast | | |
| Back Pressure | 0.103 - 0.689 | MPa | |
| Screw Speed | 100 | rpm | |
| Clamp Tonnage | 3.4 - 5.5 | kN/cm² | |
| Cushion | 6.35 - 12.7 | mm | |
| Screw L/D Ratio | 20.0:1.0 | | |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

