

Technical Data Sheet

Polyfort FPP2B20CCBKBLK



Polypropylene, Homopolymer

Product Description

Polyfort FPP2B20CCBKBLK is a Polypropylene Homopolymer Glass Fiber, 20% filled material and is typically used in Injection Molding applications. Features include: Chemically Coupled, Good Impact Resistance, and Homopolymer.

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|-----------------------------|---|
| Processing Method | Injection Molding |
| Attribute | Chemically Coupled; Good Impact Resistance; Homopolymer |
| Forms | Pellets |
| Filler/Reinforcement | Glass Fiber, 20% |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate | 3.5 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 1.04 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield, (23 °C) | 51.0 | MPa | ASTM D638 |
| Flexural Modulus, (Tangent) | 2900 | MPa | ASTM D790 |
| Impact | | | |
| Gardner Impact | 2.26 | J | ASTM D3029 |
| Notched Izod Impact, (23 °C, 3.18 mm) | 64 | J/m | ASTM D256 |
| Hardness | | | |
| Durometer Hardness, (Shore D) | 72 | | ASTM D2240 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (264 psi) | 121 | °C | ASTM D648 |
| Deflection Temperature Under Load Unannealed (66 psi) | 138 | °C | ASTM D648 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature | 82 to 104 | °C |
| Screw Speed | 20 to 60 | rpm |
| Processing (Melt) Temp | 199 to 243 | °C |
| Front Temperature | 199 to 243 | °C |
| Middle Temperature | 199 to 243 | °C |
| Rear Temperature | 199 to 243 | °C |
| Injection Rate | Moderate | |
| Back Pressure | <0.345 | MPa |
| Mold Temperature | 16 to 66 | °C |
| Cushion | 6.35 to 12.7 | mm |