

Technical Data Sheet

Polyfort CPP2C20ULBKBLK



Polypropylene, Homopolymer

Product Description

Polyfort CPP2C20ULBKBLK is a Polypropylene Homopolymer Calcium Carbonate, 20% filled material and is typically used in Injection Molding applications. Features include: Good Impact Resistance, and Homopolymer.

| | |
|-----------------------------|-------------------------------------|
| Processing Method | Injection Molding |
| Attribute | Good Impact Resistance; Homopolymer |
| Forms | Pellets |
| Filler/Reinforcement | Calcium Carbonate, 20% |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|-------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 16 | g/10 min | ASTM D1238 |
| Density - Specific Gravity | 1.05 | g/cm ³ | ASTM D792 |
| Mechanical | | | |
| Tensile Strength at Yield, (23 °C, 3.18 mm) | 24.1 | MPa | ASTM D638 |
| Flexural Modulus, (23 °C, 3.18 mm, Tangent) | 1650 | MPa | ASTM D790 |
| Impact | | | |
| Gardner Impact, (23 °C, 3.18 mm) | 9.04 | J | ASTM D5420 |
| Notched Izod Impact, (23 °C, 3.18 mm) | 48 | J/m | ASTM D256 |
| Hardness | | | |
| Durometer Hardness, (Shore D, 3.18 mm) | 70 | | ASTM D2240 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm) | 51.7 | °C | ASTM D648 |
| Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm) | 82.2 | °C | ASTM D648 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 2.0 to 4.0 | hr |
| Drying Temperature | 82 to 104 | °C |
| Processing (Melt) Temp | 199 to 232 | °C |
| Front Temperature | 188 to 232 | °C |
| Middle Temperature | 188 to 232 | °C |
| Rear Temperature | 188 to 232 | °C |
| Injection Rate | Moderate | |
| Back Pressure | 0.138 to 2.07 | MPa |
| Mold Temperature | 21 to 49 | °C |
| Cushion | 6.35 to 12.7 | mm |