Technical Data Sheet

# *Polyfort* FIPPMKF4025K2311 BLKSN

Polypropylene Copolymer

## Product Description

40% glass fibre and mineral reinforced / filled PP-Copolymer compound with reduced warpage

| | |
|---|---|
| **Processing Method** | Injection Molding |
| **Attribute** | Heat Stabilized; High Strength; High Toughness; Low Warpage |
| **Filler/Reinforcement** | Glass Fiber\Mineral, 40% |
| **Resin ID** | PP-C 25%GF 15% MF |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate, (230 °C/2.16 kg) | 17 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.22 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 2.8 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 62.0 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 6500 | MPa | ISO 527-1 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 8.0 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 6.0 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 29 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 27 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Ball Indentation Hardness, (H 358/30) | 90.0 | MPa | ISO 2039-1 |
| **Thermal** | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 157 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 142 | °C | ISO 75-2/A |
| **Flammable** | | | |
| Burning Rate | | | |
| (2.00 mm) | <100 | mm/min | ISO 3795 |
| (2.00 mm) | <100 | mm/min | FMVSS 302 |

| Injection Parameters | Nominal Value | Units |
|---|---|---|
| Drying Time | 2.0 to 3.0 | hr |
| Drying Temperature | 80 | °C |
| Processing (Melt) Temp | 220 to 260 | °C |
| Mold Temperature | 30 to 60 | °C |