

Technical Data Sheet

Polyfort FPP MT30 SN BLK NOM

Polypropylene, Homopolymer

Product Description

30% talc filled PP-Homopolymer

Processing Method Injection Molding**Filler/Reinforcement** Talc, 30%

| Typical Properties | Nominal Value | Units | Test Method |
|---|----------------------|-------------------------|--------------------|
| Physical | | | |
| Melt Volume Flow Rate, (230 °C/2.16 kg) | 20 | cm ³ /10 min | ISO 1133 |
| Density, (Method A) | 1.14 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Stress at Yield, (Type 1A, 50 mm/min) | 28.0 | MPa | ISO 527-2 |
| Tensile Strain at Yield, (Type 1A, 50 mm/min) | 4.0 | % | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 3200 | MPa | ISO 527-1 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 3.0 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 1.5 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 24 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 10 | kJ/m ² | ISO 179 |
| Hardness | | | |
| Ball Indentation Hardness, (H 358/30) | 78.0 | MPa | ISO 2039-1 |
| Ball Pressure Test, (125 °C) | Pass | | IEC 60695-10-2 |
| Thermal | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 96.0 | °C | ISO 306 |
| (A (10N), 50 °C/h) | 154 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 120 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 75.0 | °C | ISO 75-2/A |
| Electrical | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |
| Flammable | | | |

| | | | |
|---------------------------------------|------|--------|----------------------|
| Burning Rate | | | |
| (2.00 mm) | <100 | mm/min | ISO 3795 |
| (2.00 mm) | <100 | mm/min | FMVSS 302 |
| Glow Wire Flammability Index | | | |
| (1.5 mm) | 750 | °C | IEC 60695-2-12 |
| (3.0 mm) | 750 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature | | | |
| (1.5 mm) | 775 | °C | IEC 60695-2-13 |
| (3.0 mm) | 775 | °C | IEC 60695-2-13 |
| UL Information | | | |
| Flammability Classification | | | |
| (1.5 mm) | HB | | IEC 60695-11-10, -20 |
| (3.0 mm) | HB | | IEC 60695-11-10, -20 |

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