

Technical Data Sheet

Polyfort FPP 3790-080 GRY

Polypropylene, Unspecified (PP, Unspecified)

Product Description

PP compound with 40% talc filler. Long term heat stabilized.

Processing Method Injection Molding**Filler/Reinforcement** Talc, 40%

| Typical Properties | Nominal Value | Units | Test Method |
|---|----------------------|-------------------------|--------------------|
| Physical | | | |
| Melt Volume Flow Rate, (230 °C/2.16 kg) | 11 | cm ³ /10 min | ISO 1133 |
| Density | 1.25 | g/cm ³ | ISO 1183 |
| Mechanical | | | |
| Tensile Strain at Break | 3.8 | % | ISO 527-2 |
| Flexural Modulus | 5000 | MPa | ISO 178 |
| Tensile Stress at Break | 25 | MPa | ISO 527-2 |
| Tensile Modulus | 4500 | MPa | ISO 527-1 |
| Flexural Stress, (7.0%) | 20.0 | MPa | ISO 178 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C) | 2.3 | kJ/m ² | ISO 179 |
| (-30 °C) | 1.7 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (-30 °C) | 10 | kJ/m ² | ISO 179 |
| (23 °C) | 15 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 130 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 74 | °C | ISO 75-2/A |
| Electrical | | | |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| Surface Resistivity | >1.0E+15 | ohm | IEC 62631-3-2 |
| Flammable | | | |
| Burning Rate, (2.00 mm) | 50 | mm/min | ISO 3795 |
| Additional Information | | | |
| Filler Content | 40 | % | ASTM D5630 |
| UL Information | | | |

Flammability Classification

| | | |
|----------|----|--------------------------|
| (0.8 mm) | HB | IEC 60695-11-10, - 20 |
| (1.6 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 |
