

## Technical Data Sheet

### Polyfort FPP 3790-002 WHI

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   |
|---------------------------------------------------------|---------------|-------------------------|---------------|
| <b>Physical</b>                                         |               |                         |               |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                 | 11            | cm <sup>3</sup> /10 min | ISO 1133      |
| Density                                                 | 1.25          | g/cm <sup>3</sup>       | ISO 1183      |
| <b>Mechanical</b>                                       |               |                         |               |
| 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       |
| <b>Impact</b>                                           |               |                         |               |
| Charpy Impact Strength - Notched                        |               |                         |               |
| (23 °C)                                                 | 2.3           | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C)                                                | 1.7           | kJ/m <sup>2</sup>       | ISO 179       |
| Charpy Impact Strength - Unnotched                      |               |                         |               |
| (-30 °C)                                                | 10            | kJ/m <sup>2</sup>       | ISO 179       |
| (23 °C)                                                 | 15            | kJ/m <sup>2</sup>       | ISO 179       |
| <b>Thermal</b>                                          |               |                         |               |
| 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    |
| <b>Electrical</b>                                       |               |                         |               |
| Volume Resistivity                                      | >1.0E+13      | ohm*m                   | IEC 62631-3-1 |
| Surface Resistivity                                     | >1.0E+15      | ohm                     | IEC 62631-3-2 |
| <b>Flammable</b>                                        |               |                         |               |
| Burning Rate, (2.00 mm)                                 | 50            | mm/min                  | ISO 3795      |
| <b>Additional Information</b>                           |               |                         |               |
| Filler Content                                          | 40            | %                       | ASTM D5630    |
| <b>UL Information</b>                                   |               |                         |               |

| 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    |