

## Technical Data Sheet

### Polyfort FPP 30TSHH K2362 BLK



Polypropylene, Homopolymer

#### Product Description

30% talc filled PP-Homopolymer with long term heat stabilization

**Processing Method** Injection Molding

**Attribute** Heat Stabilized

**Filler/Reinforcement** Talc, 30%

| Typical Properties                                                   | Nominal Value | Units                   | Test Method          |
|----------------------------------------------------------------------|---------------|-------------------------|----------------------|
| <b>Physical</b>                                                      |               |                         |                      |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                              | 15            | cm <sup>3</sup> /10 min | ISO 1133             |
| Density, (Method A)                                                  | 1.15          | g/cm <sup>3</sup>       | ISO 1183             |
| <b>Mechanical</b>                                                    |               |                         |                      |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                        | 30.0          | MPa                     | ISO 527-2            |
| Tensile Strain at Break                                              | 2.8           | %                       | ISO 527-2            |
| Flexural Modulus                                                     | 3900          | MPa                     | ISO 178              |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 3700          | MPa                     | ISO 527-1            |
| Flexural Stress                                                      | 51            | MPa                     | ISO 178              |
| <b>Impact</b>                                                        |               |                         |                      |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 3.0           | kJ/m <sup>2</sup>       | ISO 179              |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | 25            | kJ/m <sup>2</sup>       | ISO 179              |
| <b>Thermal</b>                                                       |               |                         |                      |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 70.0          | °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 60093            |
| <b>Flammable</b>                                                     |               |                         |                      |
| Burning Rate                                                         |               |                         |                      |
| (2.00 mm)                                                            | <100          | mm/min                  | ISO 3795             |
| (2.00 mm)                                                            | <100          | mm/min                  | FMVSS 302            |
| <b>UL Information</b>                                                |               |                         |                      |
| Flammability Classification                                          |               |                         |                      |
| (1.5 mm)                                                             | HB            |                         | IEC 60695-11-10, -20 |
| (3.0 mm)                                                             | HB            |                         | IEC 60695-11-10, -20 |
| <b>Injection Parameters</b>                                          |               |                         |                      |
|                                                                      | 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                      |                      |