

## Technical Data Sheet

### Polyfort FPP 22 T LE K1684 BLK71625



Polypropylene, Homopolymer

#### Product Description

22% talc filled and head stabilized PP-Homopolymer with low emission, especially designed for Automotive interior applications

|                      |                                |
|----------------------|--------------------------------|
| Processing Method    | Injection Molding              |
| Attribute            | Heat Stabilized; Low Emissions |
| Filler/Reinforcement | Mineral, 22%                   |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method    |
|---------------------------------------------------------------------|---------------|-------------------------|----------------|
| <b>Physical</b>                                                     |               |                         |                |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 12            | cm <sup>3</sup> /10 min | ISO 1133       |
| Density, (Method A)                                                 | 1.06          | 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 Yield, (Type 1A, 50 mm/min)                       | 6.0           | %                       | ISO 527-2      |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2600          | MPa                     | ISO 527-1      |
| <b>Impact</b>                                                       |               |                         |                |
| Charpy Impact Strength - Notched                                    |               |                         |                |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 3.0           | kJ/m <sup>2</sup>       | ISO 179        |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 1.5           | kJ/m <sup>2</sup>       | ISO 179        |
| Charpy Impact Strength - Unnotched                                  |               |                         |                |
| (23 °C, Type 1, Edgewise)                                           | 40            | kJ/m <sup>2</sup>       | ISO 179        |
| (-30 °C, Type 1, Edgewise)                                          | 15            | kJ/m <sup>2</sup>       | ISO 179        |
| <b>Hardness</b>                                                     |               |                         |                |
| Ball Indentation Hardness, (H 358/30)                               | 75.0          | MPa                     | ISO 2039-1     |
| Ball Pressure Test, (125 °C)                                        | Pass          |                         | IEC 60695-10-2 |
| <b>Thermal</b>                                                      |               |                         |                |
| Vicat Softening Temperature                                         |               |                         |                |
| (B (50N), 50 °C/h)                                                  | 94.0          | °C                      | ISO 306        |
| (A (10N), 50 °C/h)                                                  | 151           | °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) | 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      |

#### Flammable

|              |      |        |           |
|--------------|------|--------|-----------|
| Burning Rate |      |        |           |
| (2.00 mm)    | <100 | mm/min | ISO 3795  |
| (2.00 mm)    | <100 | mm/min | FMVSS 302 |

#### 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    |