

## Technical Data Sheet

### Polyfort FPP 22T SN K1093 NAT



Polypropylene Compounds

#### Product Description

22% talc filled PP-Homopolymer with long term heat stabilization, low emissions

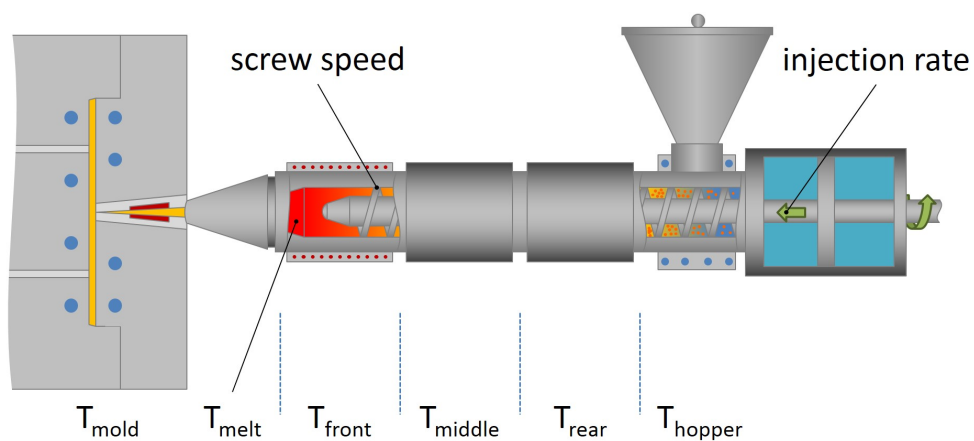
|                      |                                                                        |
|----------------------|------------------------------------------------------------------------|
| Status               | Commercial: Active                                                     |
| Availability         | Africa-Middle East; Asia-Pacific; Europe; Latin America; North America |
| Processing Method    | Injection Molding                                                      |
| Attribute            | Heat Stabilized; Low Emissions                                         |
| Filler/Reinforcement | Talc, 22%                                                              |

| Typical Properties                                                  | Nominal Value  | Units                   | Test Method    |
|---------------------------------------------------------------------|----------------|-------------------------|----------------|
| <b>Physical</b>                                                     |                |                         |                |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 20             | cm <sup>3</sup> /10 min | ISO 1133       |
| Density, (Method A)                                                 | 1.07           | g/cm <sup>3</sup>       | ISO 1183       |
| <b>Mechanical</b>                                                   |                |                         |                |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 29.0           | MPa                     | ISO 527-2      |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 5.0            | %                       | ISO 527-2      |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2650           | 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)                                           | 35             | 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)                               | 80.0           | 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)                                                  | 86.0           | °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                                                  | 10000000000000 | ohm*m                   | IEC 62631-3-1  |
| Surface Resistivity                                                 | 1E+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      |

|                                |     |    |                |
|--------------------------------|-----|----|----------------|
| Glow Wire Flammability Index   |     |    |                |
| (1.5 mm)                       | 725 | °C | IEC 60695-2-12 |
| (3.0 mm)                       | 725 | °C | IEC 60695-2-12 |
| Glow Wire Ignition Temperature |     |    |                |
| (1.5 mm)                       | 750 | °C | IEC 60695-2-13 |
| (3.0 mm)                       | 750 | °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    |