

Technical Data Sheet

## Polyfort FPP 30 GFC-F

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

### Product Description

30% glass fibre reinforced PP homopolymer, chemically coupled, easy flow

### General

|                        |                                     |             |               |
|------------------------|-------------------------------------|-------------|---------------|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |             |               |
| Features               | • Chemically Coupled                | • Good Flow | • Homopolymer |
| Processing Method      | • Injection Molding                 |             |               |

| Physical                                        | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
|-------------------------------------------------|---------------------------|---------------------------|----------------|
| Density                                         | 1.09 g/cm <sup>3</sup>    | 1.09 g/cm <sup>3</sup>    | ISO 1183/A     |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 Kg)     | 17 cm <sup>3</sup> /10min | 17 cm <sup>3</sup> /10min | ISO 1133       |
| Mechanical                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Tensile Modulus                                 | 957000 psi                | 6600 MPa                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)                          | 12300 psi                 | 85.0 MPa                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)                          | 2.6 %                     | 2.6 %                     | ISO 527-2/1A/5 |
| Impact                                          | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Charpy Notched Impact Strength (73°F (23°C))    | 4.3 ft·lb/in <sup>2</sup> | 9.0 kJ/m <sup>2</sup>     | ISO 179/1eA    |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | 21 ft·lb/in <sup>2</sup>  | 44 kJ/m <sup>2</sup>      | ISO 179/1eU    |
| Hardness                                        | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Ball Indentation Hardness (H 358/30)            | 17400 psi                 | 120 MPa                   | ISO 2039-1     |
| Thermal                                         | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Deflection Temperature Under Load               |                           |                           |                |
| 66 Psi (0.45 Mpa), Unannealed                   | 313 °F                    | 156 °C                    | ISO 75-2/Bf    |
| 264 Psi (1.8 Mpa), Unannealed                   | 297 °F                    | 147 °C                    | ISO 75-2/Af    |
| Vicat Softening Temperature                     |                           |                           |                |
| --                                              | 264 °F                    | 129 °C                    | ISO 306/B50    |
| --                                              | 324 °F                    | 162 °C                    | ISO 306/A120   |
| Electrical                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Surface Resistivity                             | > 1.0E+15 ohms            | > 1.0E+15 ohms            | IEC 60093      |
| Volume Resistivity                              | > 1.0E+13 ohms·cm         | > 1.0E+13 ohms·cm         | IEC 60093      |

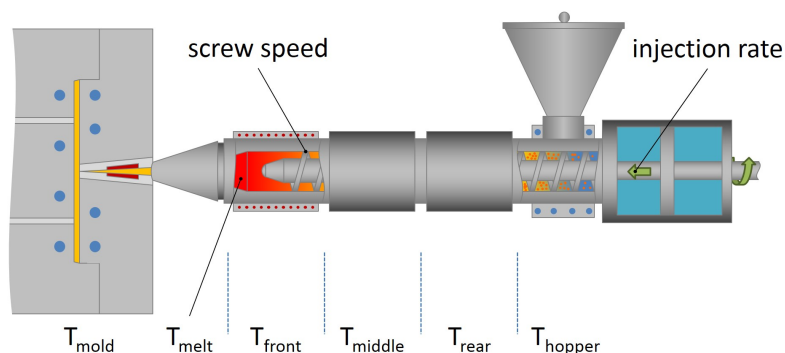
### Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |

### Injection Notes

Drying normally not necessary.

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

### Notes

These are typical property values not to be construed as specification limits.