Technical Data Sheet

# *Polyfort* FPP 40 GFC LE BLK

Polypropylene, Homopolymer

## Product Description

40 % glass fibre reinforced PP homopolymer, chemically coupled, low emission

## Regulatory Status

For regulatory compliance information, see *Polyfort* FPP 40 GFC LE BLK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

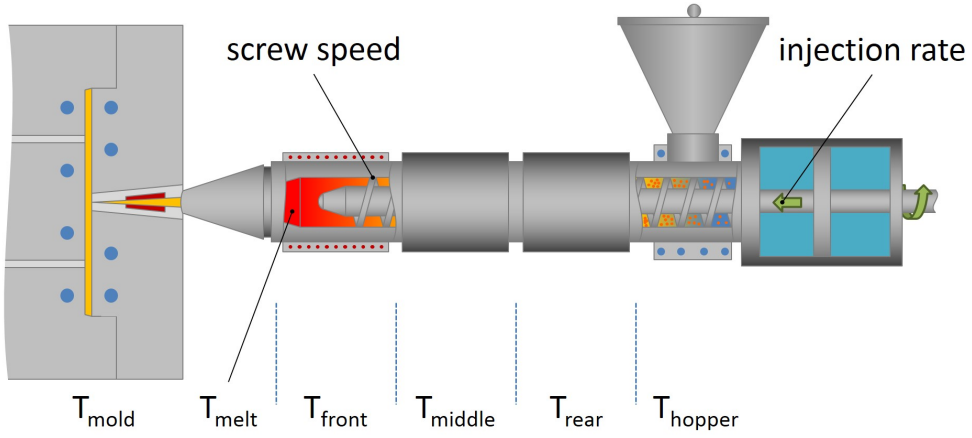
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|---|---|
| **Status** | Commercial: Active |
| **Availability** | Africa-Middle East; Asia-Pacific; Latin America; North America |
| **Processing Method** | Injection Molding |
| **Attribute** | Chemically Coupled; Homopolymer; Low Emissions |
| **Filler/Reinforcement** | Glass Fiber, 40% |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---|---|---|
| **Physical** | | | |
| Melt Volume Flow Rate, (230 °C/2.16 kg) | 4.0 | cm³/10 min | ISO 1133 |
| Density, (Method A) | 1.21 | g/cm³ | ISO 1183 |
| **Mechanical** | | | |
| Tensile Modulus, (1 mm/min, Type 1A) | 9000 | MPa | ISO 527-1 |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 3.3 | % | ISO 527-2 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 100 | MPa | ISO 527-2 |
| **Impact** | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 10 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 8.0 | kJ/m² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | 52 | kJ/m² | ISO 179 |
| (-30 °C, Type 1, Edgewise) | 50 | kJ/m² | ISO 179 |
| **Hardness** | | | |
| Ball Indentation Hardness, (H 358/30) | 147 | MPa | ISO 2039-1 |
| **Thermal** | | | |
| Vicat Softening Temperature | | | |
| (B (50N), 50 °C/h) | 141 | °C | ISO 306 |
| (A (10N), 120 °C/h) | 166 | °C | ISO 306 |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 147 | °C | ISO 75-2/A |
| **Electrical** | | | |
| Surface Resistivity | >1.0E+15 | ohm | IEC 60093 |
| Volume Resistivity | >1.0E+13 | ohm*m | IEC 62631-3-1 |
| **Flammable** | | | |



Manufacturer website: https://www.lyondellbasell.com/en/

| | | | |
|---|---|---|---|
| Burning Rate | | | |
| (2.00 mm) | 60 | mm/min | FMVSS 302 |
| (2.00 mm) | 60 | mm/min | ISO 3795 |
| **Additional Information** | | | |
| Water Absorption 23C/50RH | 0.03 | % | ISO 62 |
| **UL Information** | | | |
| Flammability Classification, (1.5 mm) | HB | | IEC 60695-11-10, -20 |




| Injection Parameters | Nominal Value | Units |
|---|---|---|
| Drying Temperature | 80 | °C |
| Drying Time | 2.0 to 3.0 | hr |
| Processing (Melt) Temp | 220 to 260 | °C |
| Mold Temperature | 30 to 60 | °C |
| Injection Rate | Moderate-Fast | |

## Notes

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

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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