Technical Data Sheet

Polyfort FPP 40 GFC LE K2097 BLK

Polypropylene, Homopolymer

Product Description

40 % glass fibre reinforced PP homopolymer, long term heat stabilized, low emission

Regulatory Status

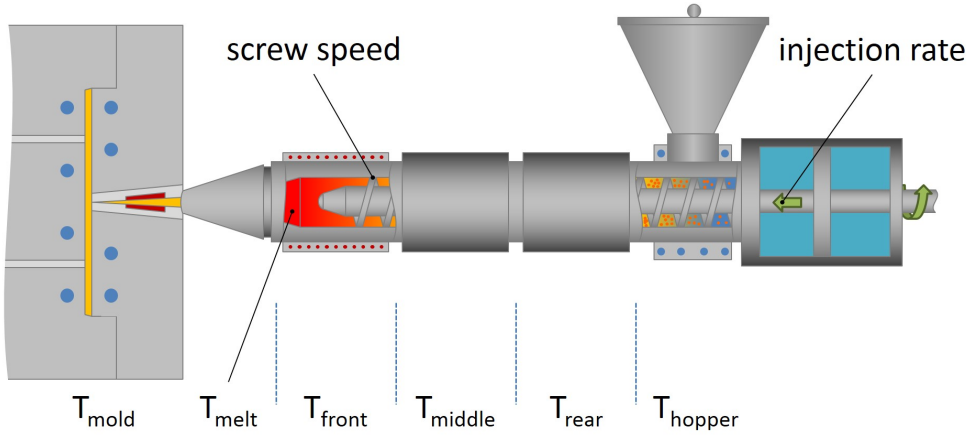
For regulatory compliance information, see *Polyfort* FPP 40 GFC LE K2097 BLK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Heat Stabilized; Homopolymer; Low Emissions
Filler/Reinforcement	Glass Fiber, 40%
Resin ID	PP-H 40 GF

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)	2.8	%	ISO 527-2
Flexural Modulus	8300	MPa	ISO 178
Flexural Stress			
(2.0 mm/min, 3.3%)	130	MPa	ISO 178
(2.0 mm/min, 3.1%)	145	MPa	ISO 178
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)	50	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	49	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	153	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A (10N), 50 °C/h)	165	°C	ISO 306
(B (50N), 50 °C/h)	135	°C	ISO 306

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

Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	159	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	145	°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			
Burning Rate			
(2.00 mm)	<100	mm/min	FMVSS 302
(2.00 mm)	<100	mm/min	ISO 3795
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 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/.

© LyondellBasell Industries Holdings, B.V. 2026

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.