Technical Data Sheet

Polyfort FPP 40 GFC BLK

Polypropylene, Homopolymer

Product Description

40 % glass fibre reinforced PP-Homopolymer, chemically coupled

Regulatory Status

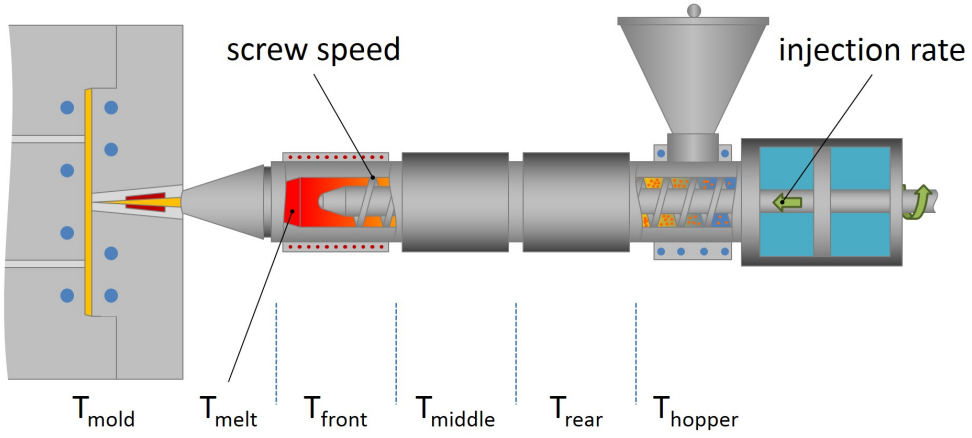
For regulatory compliance information, see *Polyfort* FPP 40 GFC BLK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Homopolymer
Filler/Reinforcement	Glass Fiber, 40%
Resin ID	PP-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)	8100	MPa	ISO 527-1
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.7	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	90.0	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)	6.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	45	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	39	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	144	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A (10N), 50 °C/h)	165	°C	ISO 306
(B (50N), 50 °C/h)	134	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	159	°C	ISO 75-2/B
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

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

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 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	

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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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