

Technical Data Sheet

Polyfort FPP 30/10 GBGF BLK 968001



Polypropylene, Homopolymer

Product Description

30% glass bead and glass fibre reinforced PP-Homopolymer with high stiffness and low warpage

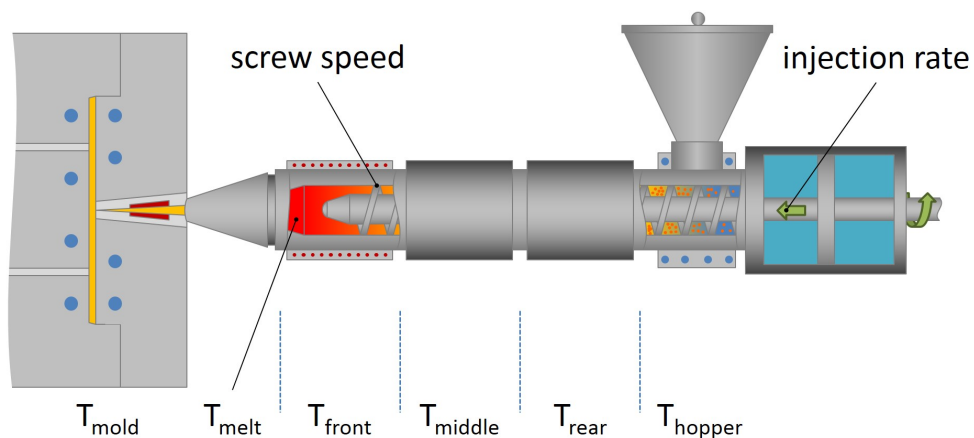
Regulatory Status

For regulatory compliance information, see Polyfort FPP 30/10 GBGF BLK 968001 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	High Stiffness; Homopolymer; Low Warpage
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.12	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break, (Type 1A, 5 mm/min)	4.0	%	ISO 527-2
Tensile Stress at Break, (Type 1A, 5 mm/min)	51.0	MPa	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	3500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	5.0	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	4.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	35	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise)	29	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	102	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	115	°C	ISO 306
(A (10N), 50 °C/h)	161	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	150	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	112	°C	ISO 75-2/A
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1
Surface Resistivity	>1.0E+15	ohm	IEC 60093
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 Time	2.0 to 3.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	30 to 60	°C

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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