Technical Data Sheet

Polyfort FPP 30 GFC BLACK

Polypropylene, Homopolymer

Product Description

30% glass fiber reinforced PP-Homopolymer chemically coupled

Regulatory Status

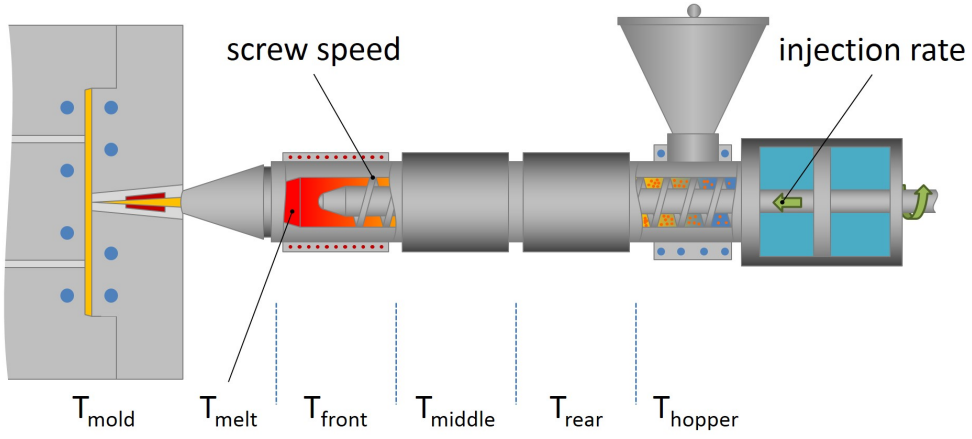
For regulatory compliance information, see *Polyfort* FPP 30 GFC BLACK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Homopolymer; UL Listed under File Numbers E86615 / E132739 / E31765
Filler/Reinforcement	Glass Fiber, 30%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	5.0	cm³/10 min	ISO 1133
Density, (Method A)	1.13	g/cm³	ISO 1183
Mechanical			
Tensile Modulus, (1 mm/min, Type 1A)	6500	MPa	ISO 527-1
Tensile Strain at Break, (Type 1A, 5 mm/min)	2.8	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	6000	MPa	ISO 178
Flexural Stress			
(2.0 mm/min, 3.6%)	126	MPa	ISO 178
(2.0 mm/min, 3.4%)	128	MPa	ISO 178
Tensile Stress at Break, (Type 1A, 5 mm/min)	84.0	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)	8.0	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	48	kJ/m²	ISO 179
(-30 °C, Type 1, Edgewise)	45	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	120	MPa	ISO 2039-1
Ball Pressure Test, (145 °C)	Pass		IEC 60695-10-2
Thermal			
Vicat Softening Temperature			
(A (10N), 50 °C/h)	165	°C	ISO 306
(B (50N), 50 °C/h)	130	°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)	160	°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)	58	mm/min	FMVSS 302
(2.00 mm)	58	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	725	°C	IEC 60695-2-12
(3.0 mm)	750	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm, Passes)	750	°C	IEC 60695-2-13
(3.0 mm, Passes)	775	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		



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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