Technical Data Sheet

Polyfort FPP 10 GFC BLK

Polypropylene, Homopolymer

Product Description

10% glass fibre reinforced PP-Homopolymer chemically coupled

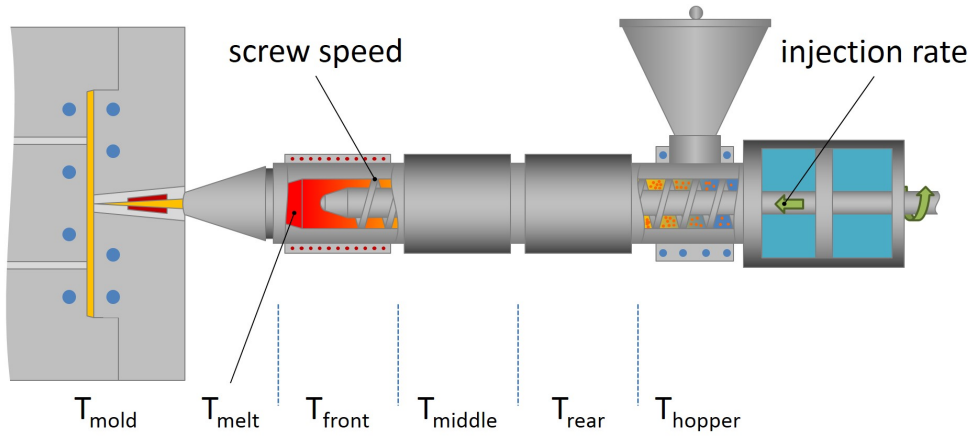
Regulatory Status

For regulatory compliance information, see *Polyfort* FPP 10 GFC BLK 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
Filler/Reinforcement	Glass Fiber, 10%
Resin ID	PP GF10

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	8.0	cm³/10 min	ISO 1133
Density, (Method A)	0.970	g/cm³	ISO 1183
Mechanical			
Tensile Modulus, (1 mm/min, Type 1A)	2810	MPa	ISO 527-1
Tensile Strain at Yield, (Type 1A, 50 mm/min)	4.0	%	ISO 527-2
Flexural Modulus, (2.0 mm/min)	2480	MPa	ISO 178
Flexural Stress			
(2.0 mm/min, 3.5%)	58.0	MPa	ISO 178
(2.0 mm/min, 6.0%)	67.5	MPa	ISO 178
Tensile Stress at Yield, (Type 1A, 50 mm/min)	50.0	MPa	ISO 527-2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	37	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	115	°C	ISO 306
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	110	°C	ISO 75-2/A
Flammable			
Burning Rate			
(2.00 mm)	<100	mm/min	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

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



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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