Technical Data Sheet

Polyfort FPP 35 GFC LM CS1 BLK

Polypropylene, Homopolymer

Product Description

35 % glass fiber reinforced PP-Homopolymer, long term heat stabilized

Regulatory Status

For regulatory compliance information, see *Polyfort* FPP 35 GFC LM CS1 BLK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

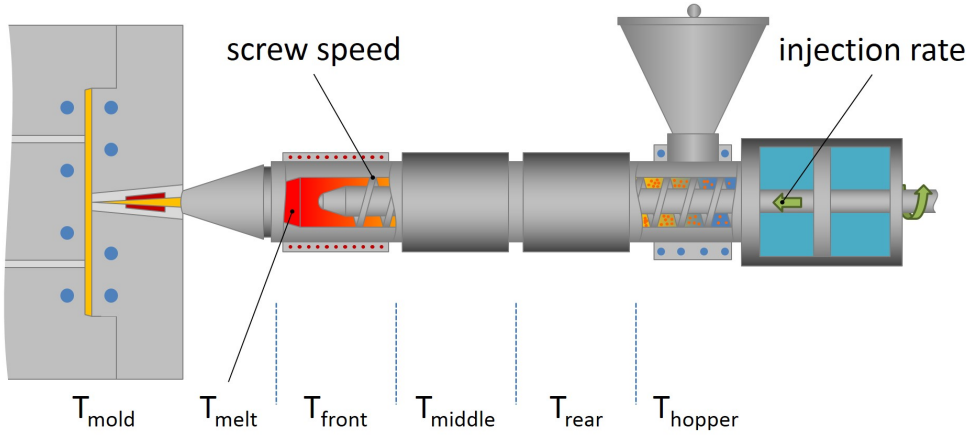
Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Latin America; North America
Processing Method	Injection Molding
Attribute	Chemically Coupled; Copper Contact Stabilized; Homopolymer; Laser Markable
Filler/Reinforcement	Glass Fiber, 35%

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)	1.16	g/cm³	ISO 1183
Mechanical			
Tensile Modulus, (1 mm/min, Type 1A)	7600	MPa	ISO 527-1
Tensile Strain at Break, (Type 1A, 5 mm/min)	3.0	%	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)	9.0	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 Pressure Test, (145 °C)	Pass		IEC 60695-10-2
Thermal			
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
Flammable			
Burning Rate			
(2.00 mm)	60	mm/min	FMVSS 302
(2.00 mm)	60	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	750	°C	IEC 60695-2-12
(3.0 mm)	750	°C	IEC 60695-2-12

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

Glow Wire Ignition Temperature			
(1.5 mm)	775	°C	IEC 60695-2-13
(3.0 mm)	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



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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