

Technical Data Sheet

Polyfort FPP 20 GFM HI HH BLK



Polypropylene, Homopolymer

Product Description

20% milled glass fibre PP homopolymer, impact modified, heat stabilized

Regulatory Status

For regulatory compliance information, see *Polyfort FPP 20 GFM HI HH BLK* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Africa-Middle East; Asia-Pacific; Europe; Latin America; North America
Processing Method	Injection Molding
Attribute	Heat Stabilized; Homopolymer; Impact Modified
Additive	Heat Stabilizer; Impact Modifier
Filler/Reinforcement	Milled Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (230 °C/2.16 kg)	3.5	cm ³ /10 min	ISO 1133
Density, (Method A)	1.07	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	31.0	MPa	ISO 527-2
Tensile Strain at Break, (Type 1A, 5 mm/min)	54	%	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	6.0	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2900	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	7.0	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)	30	kJ/m ²	ISO 179
Notched Izod Impact (Area), (23 °C)	9.00	kJ/m ²	ASTM D256
Hardness			
Ball Indentation Hardness, (H 358/30)	81.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B (50N), 50 °C/h)	73.0	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	121	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	70.0	°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	ISO 3795
(2.00 mm)	<100	mm/min	FMVSS 302

Additional Information

Water Absorption 23C/50RH

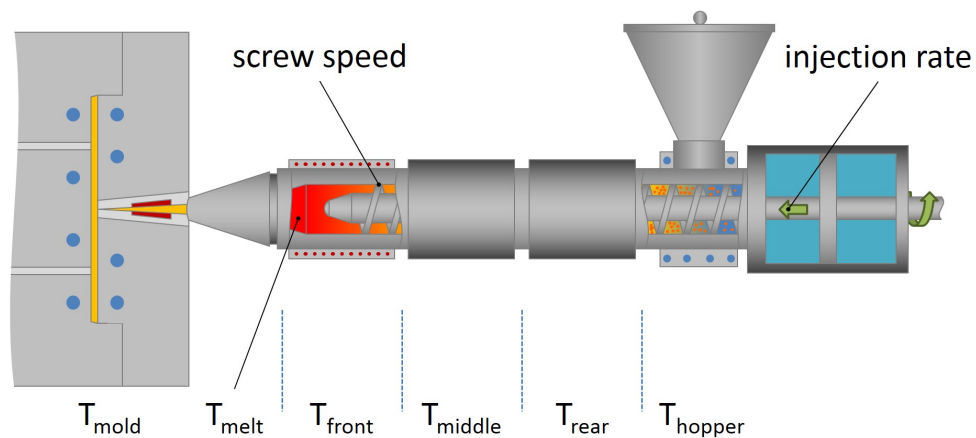
0.03 %

ISO 62

UL Information

Flammability Classification, (1.5 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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