

Technical Data Sheet

Matrixx FPP3B30HB

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

FPP3B30HBBK is a 30% Glass-Reinforced, Heat-Stabilized Polypropylene

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Homopolymer
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.7 g/10 min	8.7 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	9300 psi	64.1 MPa	ASTM D638
Tensile Elongation (Yield)	11 %	11 %	ASTM D638
Flexural Modulus - Tangent	681000 psi	4700 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 In (3.18 Mm)	3.1 ft·lb/in	160 J/m	ASTM D256
Gardner Impact	15.0 in·lb	1.69 J	ASTM D3029
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed	315 °F	157 °C	ASTM D648
264 Psi (1.8 Mpa), Unannealed	290 °F	143 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹	HB	HB	UL 94

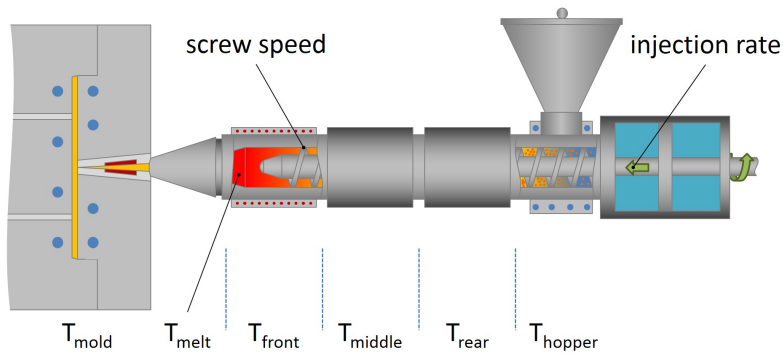
Additional Information

Melt Flow, ASTM D1238: 7-12 g/10min

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	390 to 470 °F	199 to 243 °C
Middle Temperature	390 to 470 °F	199 to 243 °C
Front Temperature	390 to 470 °F	199 to 243 °C
Processing (Melt) Temp	390 to 470 °F	199 to 243 °C
Mold Temperature	60 to 150 °F	16 to 66 °C
Injection Rate	Moderate	Moderate
Back Pressure	< 50.0 psi	< 0.345 MPa
Screw Speed	20 to 60 rpm	20 to 60 rpm
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Injection Notes

Drying not normally required