

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