

Technical Data Sheet

Matrixx FPR3B30CC

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description

FPR3B30CC is a 30% Fiberglass Reinforced, Chemically Coupled Polypropylene

General

| | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Appearance | • Colors Available |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.13 | 1.13 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield) | 8960 psi | 61.8 MPa | ASTM D638 |
| Tensile Elongation (Yield) | 12 % | 12 % | ASTM D638 |
| Flexural Modulus - Tangent | 689000 psi | 4750 MPa | ASTM D790 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact | 2.7 ft-lb/in | 140 J/m | ASTM D256 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 Psi (0.45 Mpa), Unannealed | 315 °F | 157 °C | |
| 264 Psi (1.8 Mpa), Unannealed | 285 °F | 141 °C | |

Additional Information

1EAF6A/PR2831
Revision: 5/2/2020

Technical Data Sheet

Matrixx FPR3B30CC

Polypropylene
LyondellBasell Industries
Engineering Plastics



| 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

Notes

These are typical property values not to be construed as specification limits.