

Technical Data Sheet

# Matrixx FPP3B10CCUV

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Homopolymer • Medium Impact Resistance
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.970	0.968 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	9.5 g/10 min	9.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	5400 psi	37.2 MPa	ASTM D638
Flexural Modulus - Tangent	390000 psi	2690 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)	2.0 ft·lb/in	110 J/m	ASTM D256
Gardner Impact	25.0 in·lb	2.82 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	71	71	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed	265 °F	129 °C	ASTM D648
264 Psi (1.8 Mpa), Unannealed	265 °F	129 °C	

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

**Notes**

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