

Technical Data Sheet

Matrixx FPP1A30HCGR40

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description

FPP1A30HCGR40 is a 30% Glass-Reinforced Polypropylene Homopolymer

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.6 g/10 min	5.6 g/10 min	ASTM D1238
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Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
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Tensile Strength (Yield, 73°F (23°C))	11500 psi	79.0 MPa	ASTM D638
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Flexural Modulus			ASTM D790
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73°F (23°C), 0.125 In (3.18 Mm)	849000 psi	5850 MPa	
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Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
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Notched Izod Impact			ASTM D256
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73°F (23°C), 0.125 In (3.18 Mm)	1.5 ft·lb/in	80 J/m	
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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.