

Technical Data Sheet

**Matrixx FPP2A20HSNA**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

FPP2A20HSNA is a 20% Glass-Reinforced, Chemically Coupled, Heat Stabilized Polypropylene Homopolymer

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemically Coupled • Heat Stabilized
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	2.0 g/10 min	2.0 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	8700 psi	60.0 MPa	ISO 527
Flexural Modulus - Tangent	544000 psi	3750 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ISO 75-2
66 psi (0.45 MPa), Unannealed	315 °F	157 °C	
264 psi (1.8 MPa), Unannealed	275 °F	135 °C	

Additional Information

1F856A/PR0628
Revision: 5/2/2020

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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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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Publish Date: 2024-03-14