

Technical Data Sheet

# Polyfort FPP 1220U 3120

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

**Product Description**  
Polyfort FPP 1220U 3120 is a 20% Glass Fiber Reinforced, UV Stabilized Polypropylene

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• UV Stabilized
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	9.2 g/10 min	9.2 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	7860 psi	54.2 MPa	ASTM D638
Tensile Elongation (Break)	6.7 %	6.7 %	ASTM D638
Flexural Modulus - Tangent <sup>1</sup>	544000 psi	3750 MPa	ASTM D790
Flexural Strength	12200 psi	84.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.4 ft-lb/in	130 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	302 °F	150 °C	
264 Psi (1.8 Mpa), Unannealed	248 °F	120 °C	
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	20 %	20 %	ASTM D5630

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Moderate-Fast	Moderate-Fast

### Injection Notes

Polypropylene is not hygroscopic and generally does not require drying. As a good practice and to avoid residual humidity from transport or storage conditions, we recommend drying the material.

Ensure good mold venting

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

### Notes

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