



Technical Data Sheet

# Matrixx FP62E30

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

FP62E30 is a 30% Glass Reinforced Nylon 6

**General**

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemical Resistant • High Strength
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.36	1.36 g/cm <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	21000 psi	145 MPa	ASTM D638
Flexural Modulus	1.10E+6 psi	7580 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.3 ft·lb/in	69 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	419 °F	215 °C	
264 Psi (1.8 Mpa), Unannealed	390 °F	199 °C	

**Additional Information**

1EMS2A/PR0975  
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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 200 °F	71 to 93 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	480 to 540 °F	249 to 282 °C
Middle Temperature	500 to 540 °F	260 to 282 °C
Front Temperature	500 to 540 °F	260 to 282 °C
Processing (Melt) Temp	480 to 540 °F	249 to 282 °C
Mold Temperature	180 to 200 °F	82 to 93 °C
Injection Rate	Fast	Fast
Back Pressure	< 50.0 psi	< 0.345 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

**Notes**

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