

Technical Data Sheet

# Matrixx FP62E13

Polyamide 6  
 LyondellBasell Industries  
 Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Uses	• Industrial Applications
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.21	1.21 g/cm <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	13000 psi	89.6 MPa	ASTM D638
Flexural Modulus	600000 psi	4140 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.70 ft·lb/in	37 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	390 °F	199 °C	
264 Psi (1.8 Mpa), Unannealed	380 °F	193 °C	
RTI Str	150 °F	65.6 °C	UL 746B

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

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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	500 to 550 °F	260 to 288 °C
Middle Temperature	500 to 550 °F	260 to 288 °C
Front Temperature	500 to 550 °F	260 to 288 °C
Processing (Melt) Temp	500 to 560 °F	260 to 293 °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

**Injection Notes**

- Dessicant dryer with -20°F dewpoint
- Screw Speed: Slow to Medium

**Notes**

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