



Technical Data Sheet

**Matrixx F663E33**

Polyamide 66  
 LyondellBasell Industries  
 Engineering Plastics

**Product Description**  
 33% Glass Reinforced Nylon 66

General	
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38 g/cm <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	21600 psi	149 MPa	ASTM D638
Flexural Modulus - Tangent	1.35E+6 psi	9310 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.5 ft·lb/in	80 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	480 °F	249 °C	ASTM D648

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating <sup>1</sup>	HB	HB	UL 94

**Additional Information**  
 1E8R0A/PR1178=  
 Revision: 5/2/2020

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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
Rear Temperature	480 to 520 °F	249 to 271 °C
Middle Temperature	480 to 560 °F	249 to 293 °C
Front Temperature	480 to 560 °F	249 to 293 °C
Processing (Melt) Temp	480 to 560 °F	249 to 293 °C
Mold Temperature	150 to 200 °F	66 to 93 °C
Injection Rate	Moderate-Fast	Moderate-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**

<sup>1</sup> Does not have a recognized UL Yellow Card

**Notes**

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