

Technical Data Sheet

Matrixx F663E43

Polyamide 66
 LyondellBasell Industries
 Engineering Plastics

General

- | | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 43% Filler by Weight |
| Forms | • Pellets |

Physical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.49	1.49 g/cm ³	ASTM D792

Mechanical

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	30500 psi	210 MPa	ASTM D638
Flexural Modulus - Tangent	1.62E+6 psi	11200 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 264 Psi (1.8 Mpa), Unannealed	490 °F	254 °C	ASTM D648

RTI Str	150 °F	65.6 °C	UL 746B
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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
Rear Temperature	520 to 570 °F	271 to 299 °C
Middle Temperature	520 to 570 °F	271 to 299 °C
Front Temperature	520 to 570 °F	271 to 299 °C
Processing (Melt) Temp	530 to 570 °F	277 to 299 °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

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

Notes

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