

Technical Data Sheet

# Matrixx 663E0

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

General	
Features	<ul style="list-style-type: none"> <li>High Impact Resistance</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.10	1.10 g/cm <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	9300 psi	64.1 MPa	ASTM D638
Flexural Modulus - Tangent	360000 psi	2480 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	4.0 ft·lb/in	210 J/m	ASTM D256
Gardner Impact	> 320 in·lb	> 36.2 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
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 180 °F	71 to 82 °C
Drying Time	4.0 hr	4.0 hr
Rear Temperature	480 to 560 °F	249 to 293 °C
Middle Temperature	480 to 560 °F	249 to 293 °C
Front Temperature	480 to 560 °F	249 to 293 °C
Processing (Melt) Temp	520 to 560 °F	271 to 293 °C
Mold Temperature	125 to 180 °F	52 to 82 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	< 50.0 psi	< 0.345 MPa
Cushion	0.125 to 0.250 in	3.18 to 6.35 mm

**Injection Notes**

- 20°C Dewpoint
- Screw Speed: Medium

**Notes**

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