



Technical Data Sheet

**Matrixx 665E0**

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	1.07	1.07 g/cm <sup>3</sup>	ASTM D792

**Mechanical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	6400 psi	44.1 MPa	ASTM D638
Flexural Modulus - Tangent	268000 psi	1850 MPa	ASTM D790

**Impact**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	15 ft·lb/in	800 J/m	ASTM D256

**Thermal**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	158 °F	70.0 °C	ASTM D648

**Additional Information**

1EAN3A/PR3102  
Revision 5/2/2020

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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.