

Technical Data Sheet

**Matrixx P63E0**

Polyamide 6
LyondellBasell Industries
Engineering Plastics

Product Description

Unfilled, Medium Impact, Nylon 6

General

Material Status	• Commercial: Active
Availability	• North America
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.14	1.14 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	10800 psi	74.5 MPa	ASTM D638
Flexural Modulus - Tangent	410000 psi	2830 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

Additional Information

1E9G4A/PR1450
Revision: 5/4/2020

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	470 to 520 °F	243 to 271 °C
Middle Temperature	470 to 520 °F	243 to 271 °C
Front Temperature	470 to 520 °F	243 to 271 °C
Processing (Melt) Temp	460 to 520 °F	238 to 271 °C
Mold Temperature	140 to 180 °F	60 to 82 °C
Injection Rate	Moderate	Moderate
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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