



Technical Data Sheet

Matrixx P64E0HS

Polyamide 6
LyondellBasell Industries
Engineering Plastics

General		
Features	• Heat Stabilized	• Impact Modified
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.11	1.11 g/cm ³	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	8700 psi	60.0 MPa	ASTM D638
Flexural Modulus	335000 psi	2310 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	3.3 ft-lb/in	180 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	285 °F	141 °C	
264 Psi (1.8 Mpa), Unannealed	126 °F	52.2 °C	

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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
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	480 to 520 °F	249 to 271 °C
Middle Temperature	480 to 540 °F	249 to 282 °C
Front Temperature	480 to 540 °F	249 to 282 °C
Processing (Melt) Temp	480 to 540 °F	249 to 282 °C
Mold Temperature	150 to 200 °F	66 to 93 °C
Injection Rate	Fast	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

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