Technical Data Sheet

Matrixx P65E0

Polyamide 6
LyondellBasell Industries
Engineering Plastics

General	
Features	High Impact Resistance
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	6700 psi	46.2 MPa	ASTM D638
Flexural Modulus - Tangent	260000 psi	1790 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	15 ft·lb/in	800 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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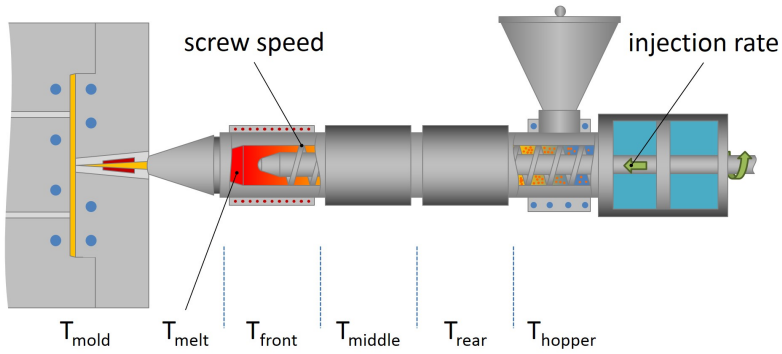

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Rear Temperature	470 to 540 °F	243 to 282 °C
Middle Temperature	470 to 540 °F	243 to 282 °C
Front Temperature	470 to 540 °F	243 to 282 °C
Processing (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.