

Technical Data Sheet

**Matrixx PP3B0**

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Copolymer	• Medium Impact Resistance	
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.910	0.908 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	12 g/10 min	12 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3900 psi	26.9 MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 73°F (23°C), 0.125 in (3.18 mm)	11 %	11 %	
Flexural Modulus - Tangent	165000 psi	1140 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm)	2.0 ft·lb/in	110 J/m	
Gardner Impact	160 in·lb	18.1 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	66	66	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	180 °F	82.2 °C	
264 psi (1.8 MPa), Unannealed	120 °F	48.9 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.6 mm), Matrixx Tested	HB	HB	
Additional Information			
The value listed as Specific Gravity, ASTM 792 was tested in accordance with Matrixx test methods.			
The value listed as Mold Shrinkage, ASTM D955 was tested in accordance with Matrixx test methods.			
Melt Flow Rate, ASTM D1238, 230°C/2.16kg (Condition L): 7-12 dg/min			

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 450 °F	177 to 232 °C
Middle Temperature	350 to 450 °F	177 to 232 °C
Front Temperature	350 to 450 °F	177 to 232 °C
Processing (Melt) Temp	380 to 450 °F	193 to 232 °C
Mold Temperature	70 to 120 °F	21 to 49 °C
Injection Rate	Moderate	Moderate
Back Pressure	20.0 to 300 psi	0.138 to 2.07 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

Injection Notes

- Drying not normally required
- Screw Speed: Slow to Medium
- Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target

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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