

Technical Data Sheet
Matrixx PP3B0
 Polypropylene Copolymer
 Engineering Plastics



General			
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/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	12 g/10 min	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in (3.18 mm))	0.016 to 0.022 in/in	1.6 to 2.2 %	ASTM D955

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

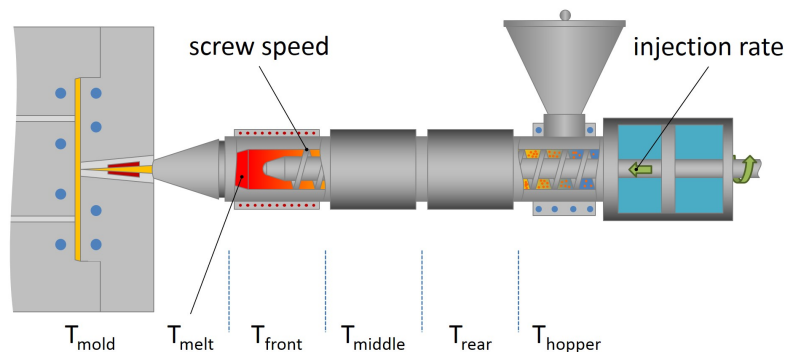
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	180 °F	82.2 °C	
264 psi (1.8 MPa), Unannealed	120 °F	48.9 °C	

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.