

Matrixx PP3A0HB

Polypropylene Copolymer

LyondellBasell Industries

Engineering Plastics

Product Description

PP3A0HB is an Unfilled, High Impact Polypropylene Copolymer

General

Features	• Copolymer
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) (230°C/2.16 Kg)	7.8 g/10 min	7.8 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3980 psi	27.4 MPa	ASTM D638
Tensile Elongation (Yield)	19 %	19 %	ASTM D638
Flexural Modulus - Tangent	167000 psi	1150 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)	2.6 ft·lb/in	140 J/m	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
RTI Elec (0.06 To 0.12 In (1.5 To 3.0 Mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.06 To 0.12 In (1.5 To 3.0 Mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.06 To 0.12 In (1.5 To 3.0 Mm))	149 °F	65.0 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ¹	HB	HB	UL 94



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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

