Technical Data Sheet

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/cm³	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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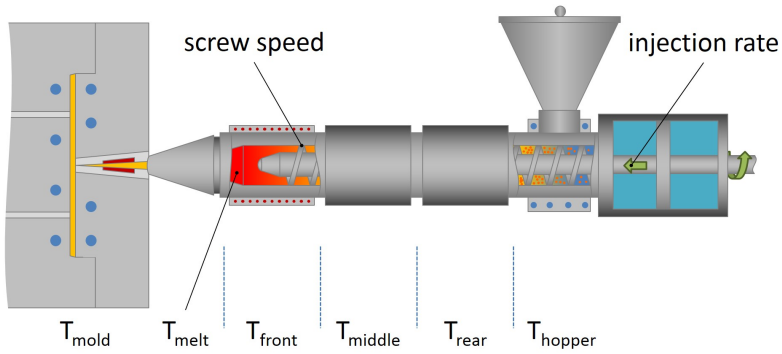

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 450 °F	177 to 232 °C
Middle Temperature	350 to 450 °F	177 to 232 °C
Front Temperature	350 to 450 °F	177 to 232 °C
Processing (Melt) Temp	380 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