Technical Data Sheet

Matrixx PP6A0BK21

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description
PP6A0BK21 is a High-Impact Polypropylene

General	
Features	• High Impact Resistance
Appearance	• Colors Available
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)	7.9 g/10 min	7.9 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield, 73°f (23°c))	2590 psi	17.9 MPa	ASTM D638
Tensile Elongation (Yield)	16 %	16 %	ASTM D638
Flexural Modulus	122000 psi	839 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)	13 ft·lb/in	710 J/m	
Gardner Impact	200 in·lb	22.6 J	ASTM D5420

Additional Information
1F927A/PR2762 Revision: 5/2/2020

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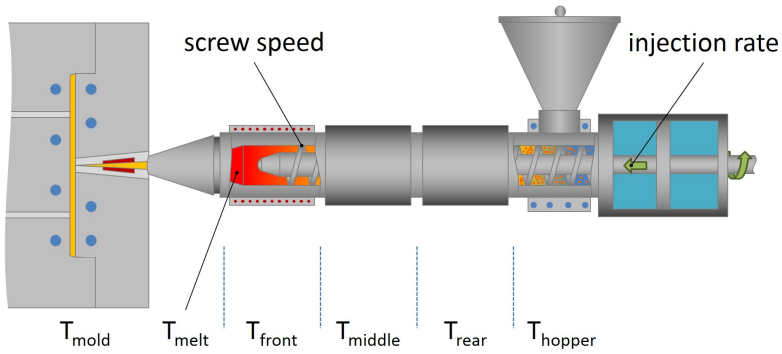

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 450 °F	177 to 232 °C
Middle Temperature	350 to 450 °F	177 to 232 °C
Front Temperature	350 to 450 °F	177 to 232 °C
Processing (Melt) Temp	380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