

## Technical Data Sheet

# Matrixx PP5A0BK21

Polypropylene Copolymer

LyondellBasell Industries

Engineering Plastics

### Product Description

PP5A0BK21 is a High-Impact Polypropylene

### General

Features	<ul style="list-style-type: none"> <li>High Impact Resistance</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Colors Available</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.910	0.908 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3020 psi	20.8 MPa	ASTM D638
Tensile Elongation (Yield)	12 %	12 %	ASTM D638
Flexural Modulus	142000 psi	979 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)	12 ft·lb/in	640 J/m	
Gardner Impact	224 in·lb	25.3 J	ASTM D5420

### Additional Information

1F869A/PR1127

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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.