

## Technical Data Sheet

**Matrixx PP6A0**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

PP6A0BK21 is a High-Impact Polypropylene

**General**

|                   |                          |
|-------------------|--------------------------|
| Material Status   | • Commercial: Active     |
| Availability      | • North America          |
| 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/cm <sup>3</sup> | 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**

1E9N9  
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.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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Publish Date: 2024-03-14

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