

Technical Data Sheet

## Matrixx PP5A0UV

Polypropylene Impact Copolymer

LyondellBasell Industries

Engineering Plastics

### Product Description

PP5A0 is an Unfilled, High Impact, UV Stabilized, Polypropylene Copolymer

### General

|                   |                     |                 |
|-------------------|---------------------|-----------------|
| Features          | • Copolymer         | • UV Stabilized |
| Appearance        | • Colors Available  |                 |
| Forms             | • Pellets           |                 |
| Processing Method | • Injection Molding |                 |

| Physical                                  | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------------|-------------------------|--------------------|-------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 5.0 g/10 min            | 5.0 g/10 min       | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield, 73°F (23°C))     | 3200 psi                | 22.1 MPa           | ASTM D638   |
| Flexural Modulus - Tangent                | 150000 psi              | 1030 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             | 690 J/m            |             |
| Gardner Impact                            | 175 in·lb               | 19.8 J             | ASTM D5420  |

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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.