

## Technical Data Sheet

**Matrixx CPP3B10**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**General**

|                        |                                           |
|------------------------|-------------------------------------------|
| Material Status        | • Commercial: Active                      |
| Availability           | • North America                           |
| Filler / Reinforcement | • Calcium Carbonate, 10% Filler by Weight |
| Features               | • Copolymer                               |
| Forms                  | • Pellets                                 |
| Processing Method      | • Injection Molding                       |

| Physical                                                           | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|--------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| Density / Specific Gravity                                         | 0.970                   | 0.968 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                          | 10 g/10 min             | 10 g/10 min             | ASTM D1238  |
| Mechanical                                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (Yield)                                           | 3500 psi                | 24.1 MPa                | ASTM D638   |
| Flexural Modulus - Tangent                                         | 160000 psi              | 1100 MPa                | ASTM D790   |
| Impact                                                             | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Notched Izod Impact                                                | 1.6 ft·lb/in            | 85 J/m                  | ASTM D256   |
| Gardner Impact                                                     | 175 in·lb               | 19.8 J                  | ASTM D5420  |
| Thermal                                                            | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load<br>66 psi (0.45 MPa), Unannealed | 165 °F                  | 73.9 °C                 | ASTM D648   |
| RTI Str                                                            | 150 °F                  | 65.6 °C                 | UL 746B     |
| Flammability                                                       | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Flame Rating (0.06 in (1.5 mm))                                    | 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       | 370 to 450 °F           | 188 to 232 °C      |
| Middle Temperature     | 370 to 450 °F           | 188 to 232 °C      |
| Front Temperature      | 370 to 450 °F           | 188 to 232 °C      |
| Processing (Melt) Temp | 390 to 450 °F           | 199 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
- Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target
- Screw Speed: Slow to Medium

### 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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