

## Technical Data Sheet

**Matrixx YPP1B40CC**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                             |                        |             |
|-------------------------------------------|---------------------------------------------|------------------------|-------------|
| Material Status                           | • Commercial: Active                        |                        |             |
| Availability                              | • North America                             |                        |             |
| Filler / Reinforcement                    | • Glass Fiber/Mineral, 40% Filler by Weight |                        |             |
| Features                                  | • Copolymer                                 |                        |             |
| Forms                                     | • Pellets                                   |                        |             |
| Physical                                  | Nominal Value (English)                     | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                | 1.24                                        | 1.24 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)                  | 8500 psi                                    | 58.6 MPa               | ASTM D638   |
| Flexural Modulus                          | 650000 psi                                  | 4480 MPa               | ASTM D790   |
| Impact                                    | Nominal Value (English)                     | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                       | 1.0 ft·lb/in                                | 53 J/m                 | ASTM D256   |
| Thermal                                   | Nominal Value (English)                     | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                                             |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 310 °F                                      | 154 °C                 |             |
| 264 psi (1.8 MPa), Unannealed             | 275 °F                                      | 135 °C                 |             |

**Additional Information**

1F888A/PR1676  
Revision: 5/4/2020

**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/>.

© LyondellBasell Industries Holdings, B.V. 2024

**Disclaimer**

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

**Trademarks**

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.