

## Technical Data Sheet

**Network Polymers Pp 30 0100 GF40**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                                             |                                        |                        |             |
|---------------------------------------------------------------------|----------------------------------------|------------------------|-------------|
| Material Status                                                     | • Commercial: Active                   |                        |             |
| Availability                                                        | • North America                        |                        |             |
| Filler / Reinforcement                                              | • Glass Fiber, 40% Filler by Weight    |                        |             |
| Features                                                            | • Chemically Coupled • Heat Stabilized |                        |             |
| Forms                                                               | • Pellets                              |                        |             |
| Physical                                                            | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                                          | 1.22                                   | 1.22 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg)              | 1.5 g/10 min                           | 1.5 g/10 min           | ASTM D1238  |
| Water Absorption (24 hr)                                            | 0.050 %                                | 0.050 %                | ASTM D570   |
| Mechanical                                                          | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Tensile Strength <sup>2</sup>                                       |                                        |                        | ASTM D638   |
| Break, 73°F (23°C), 0.125 in (3.18 mm), Injection Molded            | 13500 psi                              | 93.1 MPa               |             |
| Tensile Elongation <sup>2</sup>                                     |                                        |                        | ASTM D638   |
| Break, 73°F (23°C), 0.125 in (3.18 mm), Injection Molded            | 3.0 %                                  | 3.0 %                  |             |
| Flexural Modulus - Tangent <sup>3</sup>                             |                                        |                        | ASTM D790   |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded                   | 1.10E+6 psi                            | 7580 MPa               |             |
| Flexural Strength <sup>3</sup>                                      |                                        |                        | ASTM D790   |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded                   | 22500 psi                              | 155 MPa                |             |
| Impact                                                              | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                                                 |                                        |                        | ASTM D256A  |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded                   | 2.1 ft-lb/in                           | 110 J/m                |             |
| Hardness                                                            | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Rockwell Hardness                                                   |                                        |                        | ASTM D785   |
| R-Scale, Injection Molded                                           | 112                                    | 112                    |             |
| Thermal                                                             | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load                                   |                                        |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded | 325 °F                                 | 163 °C                 |             |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Injection Molded | 310 °F                                 | 154 °C                 |             |
| Vicat Softening Temperature                                         | 293 °F                                 | 145 °C                 | ASTM D1525  |
| Melting Temperature                                                 | 325 °F                                 | 163 °C                 | ASTM D785   |
| CLTE - Flow                                                         | 1.5E-5 in/in/°F                        | 2.7E-5 cm/cm/°C        | ASTM D696   |
| Electrical                                                          | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Dielectric Strength                                                 | 520 V/mil                              | 20 kV/mm               | ASTM D149   |
| Flammability                                                        | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Flame Rating (@1.5mm)                                               | HB                                     | HB                     | UL 94       |
| Additional Information                                              | Nominal Value (English)                | Nominal Value (SI)     | Test Method |
| Filler Content                                                      | 40 %                                   | 40 %                   | ASTM D2584  |

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**Notes**

<sup>1</sup> Procedure A

<sup>2</sup> Type I, 2.0 in/min (51 mm/min)

<sup>3</sup> 0.050 in/min (1.3 mm/min)

**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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