

## Technical Data Sheet

**Ferro Pp LPP40YR01GY**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**General**

|                        |                                           |
|------------------------|-------------------------------------------|
| Material Status        | • Commercial: Active                      |
| Availability           | • Latin America • North America           |
| Filler / Reinforcement | • Calcium Carbonate, 39% Filler by Weight |
| Features               | • Copolymer                               |
| Appearance             | • Grey                                    |
| Forms                  | • Pellets                                 |
| Processing Method      | • Injection Molding                       |

| 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) (230°C/2.16 kg) | 4.5 g/10 min            | 4.5 g/10 min           | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (73°F (23°C))            | 2400 psi                | 16.5 MPa               | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 160 %                   | 160 %                  | ASTM D638   |
| Flexural Modulus                          |                         |                        | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 239000 psi              | 1650 MPa               |             |
| Tangent : 73°F (23°C)                     | 258000 psi              | 1780 MPa               |             |
| Flexural Strength (73°F (23°C))           | 3700 psi                | 25.5 MPa               | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (73°F (23°C))         | 20 ft·lb/in             | 1000 J/m               | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | No Break                | No Break               | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 265 in·lb               | 29.9 J                 | ASTM D5420  |
| Hardness                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Durometer Hardness (Shore D)              | 66                      | 66                     | ASTM D2240  |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 200 °F                  | 93.3 °C                |             |
| 264 psi (1.8 MPa), Unannealed             | 130 °F                  | 54.4 °C                |             |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Rear Temperature       | 395 to 400 °F           | 202 to 204 °C      |
| Middle Temperature     | 400 to 410 °F           | 204 to 210 °C      |
| Front Temperature      | 410 to 415 °F           | 210 to 213 °C      |
| Nozzle Temperature     | 415 to 425 °F           | 213 to 218 °C      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |
| Back Pressure          | 50.0 to 100 psi         | 0.345 to 0.689 MPa |

### 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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