

## Technical Data Sheet

**Ferro Pp LPP10BD07HB BLACK**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                           |                         |             |
|-------------------------------------------|-------------------------------------------|-------------------------|-------------|
| Material Status                           | • Commercial: Active                      |                         |             |
| Availability                              | • Latin America • North America           |                         |             |
| Filler / Reinforcement                    | • Calcium Carbonate, 10% Filler by Weight |                         |             |
| Features                                  | • Homopolymer                             |                         |             |
| Appearance                                | • Black                                   |                         |             |
| 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) | 11 g/10 min                               | 11 g/10 min             | ASTM D1238  |
| Mechanical                                | Nominal Value (English)                   | Nominal Value (SI)      | Test Method |
| Tensile Strength (73°F (23°C))            | 4400 psi                                  | 30.3 MPa                | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 48 %                                      | 48 %                    | ASTM D638   |
| Flexural Modulus                          |                                           |                         | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 238000 psi                                | 1640 MPa                |             |
| Tangent : 73°F (23°C)                     | 253000 psi                                | 1740 MPa                |             |
| Flexural Strength (73°F (23°C))           | 6500 psi                                  | 44.8 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English)                   | Nominal Value (SI)      | Test Method |
| Notched Izod Impact (73°F (23°C))         | 0.80 ft·lb/in                             | 43 J/m                  | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 17 ft·lb/in                               | 910 J/m                 | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 10.0 in·lb                                | 1.13 J                  | ASTM D5420  |
| Thermal                                   | Nominal Value (English)                   | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load         |                                           |                         | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 224 °F                                    | 107 °C                  |             |
| 264 psi (1.8 MPa), Unannealed             | 138 °F                                    | 58.9 °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      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |

### 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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