

## Technical Data Sheet

**Ferro Pp LPP20BN47HB BLACK**

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

**General**

|                        |                                           |
|------------------------|-------------------------------------------|
| Material Status        | • Commercial: Active                      |
| Availability           | • Latin America • North America           |
| Filler / Reinforcement | • Calcium Carbonate, 21% Filler by Weight |
| Features               | • Copolymer                               |
| Appearance             | • Black                                   |
| Forms                  | • Pellets                                 |
| Processing Method      | • Injection Molding                       |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.07                    | 1.07 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 17 g/10 min             | 17 g/10 min            | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (73°F (23°C))            | 3600 psi                | 24.8 MPa               | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 55 %                    | 55 %                   | ASTM D638   |
| Flexural Modulus                          |                         |                        | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 224000 psi              | 1540 MPa               |             |
| Tangent : 73°F (23°C)                     | 255000 psi              | 1760 MPa               |             |
| Flexural Strength (73°F (23°C))           | 5800 psi                | 40.0 MPa               | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (73°F (23°C))         | 1.3 ft·lb/in            | 69 J/m                 | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 22 ft·lb/in             | 1200 J/m               | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 205 in·lb               | 23.2 J                 | ASTM D5420  |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 213 °F                  | 101 °C                 |             |
| 264 psi (1.8 MPa), Unannealed             | 137 °F                  | 58.3 °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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