

## Technical Data Sheet

**Ferro Pp TPP20AF41BK**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                              |                    |             |
|-------------------------------------------|------------------------------|--------------------|-------------|
| Material Status                           | • Commercial: Active         |                    |             |
| Availability                              | • Latin America              | • North America    |             |
| Filler / Reinforcement                    | • Talc, 20% Filler by Weight |                    |             |
| Additive                                  | • Heat Stabilizer            |                    |             |
| Features                                  | • Heat Stabilized            | • Homopolymer      |             |
| Appearance                                | • Black                      |                    |             |
| Forms                                     | • Pellets                    |                    |             |
| Processing Method                         | • Injection Molding          |                    |             |
| Physical                                  | Nominal Value (English)      | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                | 1.06                         | 1.06 g/cm³         | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.5 g/10 min                 | 5.5 g/10 min       | ASTM D1238  |
| Mechanical                                | Nominal Value (English)      | Nominal Value (SI) | Test Method |
| Tensile Strength (73°F (23°C))            | 4700 psi                     | 32.4 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 15 %                         | 15 %               | ASTM D638   |
| Flexural Modulus                          |                              |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 313000 psi                   | 2160 MPa           |             |
| Tangent : 73°F (23°C)                     | 360000 psi                   | 2480 MPa           |             |
| Flexural Strength (73°F (23°C))           | 7400 psi                     | 51.0 MPa           | ASTM D790   |
| Impact                                    | Nominal Value (English)      | Nominal Value (SI) | Test Method |
| Notched Izod Impact (73°F (23°C))         | 0.60 ft·lb/in                | 32 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 7.1 ft·lb/in                 | 380 J/m            | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 5.00 in·lb                   | 0.565 J            | ASTM D5420  |
| Thermal                                   | Nominal Value (English)      | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load         |                              |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 250 °F                       | 121 °C             |             |
| 264 psi (1.8 MPa), Unannealed             | 155 °F                       | 68.3 °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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