

Technical Data Sheet

## Ferro Pp LPP20BN45HB BLACK

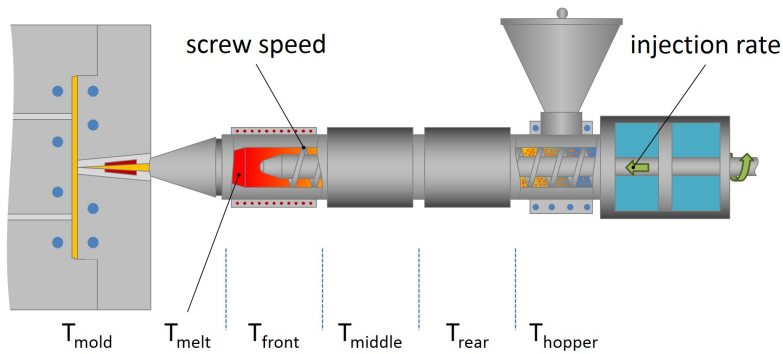
Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                           |                    |             |
|-------------------------------------------|-------------------------------------------|--------------------|-------------|
| Filler / Reinforcement                    | • Calcium Carbonate, 22% 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/cm³         | 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))            | 3300 psi                                  | 22.8 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 55 %                                      | 55 %               | ASTM D638   |
| Flexural Modulus                          |                                           |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 213000 psi                                | 1470 MPa           |             |
| Tangent : 73°F (23°C)                     | 252000 psi                                | 1740 MPa           |             |
| Flexural Strength (73°F (23°C))           | 5300 psi                                  | 36.5 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))       | 23 ft·lb/in                               | 1200 J/m           | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 200 in·lb                                 | 22.6 J             | ASTM D5420  |
| Thermal                                   | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load         |                                           |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 212 °F                                    | 100 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed             | 140 °F                                    | 60.0 °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.