

Technical Data Sheet

# Ferro Pp LPP20BN46HB

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

| General                |   |
|------------------------|---|
| Filler / Reinforcement | • Calcium Carbonate, 20% Filler by Weight |
| Features               | • Copolymer                               |
| Forms                  | • Pellets                                 |
| Processing Method      | • Injection Molding                       |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.06                    | 1.06 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 16 g/10 min             | 16 g/10 min            | ASTM D1238  |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (73°F (23°C))          | 3400 psi                | 23.4 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 80 %                    | 80 %               | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 194000 psi              | 1340 MPa           |             |
| Tangent : 73°F (23°C)                   | 229000 psi              | 1580 MPa           |             |
| Flexural Strength (73°F (23°C))         | 5200 psi                | 35.9 MPa           | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 1.2 ft·lb/in            | 64 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C)) | 24 ft·lb/in             | 1300 J/m           | ASTM D4812  |
| Gardner Impact (73°F (23°C))        | 225 in·lb               | 25.4 J             | ASTM D5420  |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 208 °F                  | 97.8 °C            |             |
| 264 Psi (1.8 Mpa), Unannealed     | 135 °F                  | 57.2 °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       | 360 to 400 °F           | 182 to 204 °C      |
| Middle Temperature     | 360 to 410 °F           | 182 to 210 °C      |
| Front Temperature      | 360 to 425 °F           | 182 to 218 °C      |
| Nozzle Temperature     | 360 to 425 °F           | 182 to 218 °C      |
| 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.