

Technical Data Sheet

## Ferro Pp LPP20BK88HB

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                |                                           |
|------------------------|-------------------------------------------|
| Filler / Reinforcement | • Calcium Carbonate, 20% Filler by Weight |
| Additive               | • Impact Modifier                         |
| Features               | • Impact Modified                         |
| Appearance             | • Natural Color                           |
| 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) | 9.0 g/10 min            | 9.0 g/10 min           | ASTM D1238  |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C))   | 3400 psi                | 23.4 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 100 %                   | 100 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 193000 psi              | 1330 MPa           |             |
| Tangent : 73°F (23°C)                   | 215000 psi              | 1480 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))  | 4900 psi                | 33.8 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)) | 18 ft·lb/in             | 960 J/m            | ASTM D4812  |
| Gardner Impact                      | 235 in·lb               | 26.6 J             | ASTM D5420  |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 190 °F                  | 87.8 °C            |             |
| 264 Psi (1.8 Mpa), Unannealed     | 130 °F                  | 54.4 °C            |             |

| Additional Information          |  |
|---------------------------------|--|
| Filler Content, ASTM D2584: 22% |  |

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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.