

Technical Data Sheet

## Ferro Pp LPP40BC78UL NATURAL

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                           |                        |             |
|-------------------------------------------|-------------------------------------------|------------------------|-------------|
| Filler / Reinforcement                    | • Calcium Carbonate, 40% Filler by Weight |                        |             |
| Additive                                  | • Heat Stabilizer                         |                        |             |
| Features                                  | • Heat Stabilized • Homopolymer           |                        |             |
| Appearance                                | • Natural Color                           |                        |             |
| Forms                                     | • Pellets                                 |                        |             |
| Processing Method                         | • Injection Molding                       |                        |             |
| Physical                                  | Nominal Value (English)                   | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                | 1.27                                      | 1.27 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 6.0 g/10 min                              | 6.0 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))   | 25 %                                      | 25 %                   | ASTM D638   |
| Flexural Modulus                          |                                           |                        | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 348000 psi                                | 2400 MPa               |             |
| Tangent : 73°F (23°C)                     | 435000 psi                                | 3000 MPa               |             |
| Flexural Strength (73°F (23°C))           | 6100 psi                                  | 42.1 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))       | 13 ft·lb/in                               | 670 J/m                | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 65.0 in·lb                                | 7.34 J                 | ASTM D5420  |
| Thermal                                   | Nominal Value (English)                   | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                                           |                        | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 255 °F                                    | 124 °C                 |             |
| 264 Psi (1.8 Mpa), Unannealed             | 165 °F                                    | 73.9 °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.