

## Technical Data Sheet

**Ferrex GPP10CS71BK**

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

**General**

|                        |                                           |
|------------------------|-------------------------------------------|
| Material Status        | • Commercial: Active                      |
| Availability           | • Latin America • North America           |
| Filler / Reinforcement | • Calcium Carbonate, 10% Filler by Weight |
| Additive               | • Impact Modifier                         |
| Features               | • High Gloss • Impact Modified            |
| Forms                  | • Pellets                                 |
| Processing Method      | • Injection Molding                       |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|-------------------------------------------|-------------------------|-------------------------|-------------|
| Density / Specific Gravity                | 0.970                   | 0.968 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 g/10 min             | 10 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))   | 200 %                   | 200 %                   | ASTM D638   |
| Flexural Modulus                          |                         |                         | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 171000 psi              | 1180 MPa                |             |
| Tangent : 73°F (23°C)                     | 182000 psi              | 1250 MPa                |             |
| Flexural Strength (73°F (23°C))           | 4800 psi                | 33.1 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Notched Izod Impact (73°F (23°C))         | 2.7 ft-lb/in            | 140 J/m                 | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | No Break                | No Break                | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 250 in-lb               | 28.2 J                  | ASTM D5420  |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load         |                         |                         | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 195 °F                  | 90.6 °C                 |             |
| 264 psi (1.8 MPa), Unannealed             | 120 °F                  | 48.9 °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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