

Technical Data Sheet

# Ferrex GPP10CS71BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                |   |
|------------------------|---|
| 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.