

Technical Data Sheet

# Ferrex GPP20CS51BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                |   |
|------------------------|---|
| Filler / Reinforcement | • Calcium Carbonate, 20% 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                | 1.06                    | 1.06 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))          | 3300 psi                | 22.8 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 130 %                   | 130 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 187000 psi              | 1290 MPa           |             |
| Tangent : 73°F (23°C)                   | 229000 psi              | 1580 MPa           |             |
| Flexural Strength (73°F (23°C))         | 5000 psi                | 34.5 MPa           | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 1.8 ft-lb/in            | 96 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     | 200 °F                  | 93.3 °C            |             |
| 264 Psi (1.8 Mpa), Unannealed     | 125 °F                  | 51.7 °C            |             |

**Notes**

These are typical property values not to be construed as specification limits.