

## Technical Data Sheet

# Ferrex GPP05CS78BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                           |                    |             |
|-------------------------------------------|-------------------------------------------|--------------------|-------------|
| Filler / Reinforcement                    | • Calcium Carbonate, 20% Filler by Weight |                    |             |
| Additive                                  | • Impact Modifier                         |                    |             |
| Features                                  | • Impact Modified                         |                    |             |
| Forms                                     | • Pellets                                 |                    |             |
| Physical                                  | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                | 0.940                                     | 0.938 g/cm³        | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 12 g/10 min                               | 12 g/10 min        | ASTM D1238  |
| Mechanical                                | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield, 73°F (23°C))     | 3800 psi                                  | 26.2 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 160 %                                     | 160 %              | ASTM D638   |
| Flexural Modulus                          |                                           |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 173000 psi                                | 1190 MPa           |             |
| Tangent : 73°F (23°C)                     | 195000 psi                                | 1340 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))    | 5200 psi                                  | 35.9 MPa           | ASTM D790   |
| Impact                                    | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Notched Izod Impact (73°F (23°C))         | 2.2 ft·lb/in                              | 120 J/m            | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | No Break                                  | No Break           | ASTM D4812  |
| Gardner Impact                            | 290 in·lb                                 | 32.8 J             | ASTM D5420  |
| Thermal                                   | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load         |                                           |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 205 °F                                    | 96.1 °C            |             |
| 264 Psi (1.8 Mpa), Unannealed             | 125 °F                                    | 51.7 °C            |             |
| Additional Information                    |                                           |                    |             |
| Filler Content, ASTM D2584: 6%            |                                           |                    |             |

## Notes

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