

Technical Data Sheet

## Ferrex GPP20CS88HB

Polypropylene Copolymer  
LyondellBasell Industries  
Engineering Plastics

| General                |   |
|------------------------|---|
| Filler / Reinforcement | • Calcium Carbonate, 20% Filler by Weight |
| Features               | • Copolymer                               |
| Appearance             | • Red                                     |
| Forms                  | • Pellets                                 |

| 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) | 7.0 g/10 min            | 7.0 g/10 min           | ASTM D1238  |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C))   | 2200 psi                | 15.2 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 150 %                   | 150 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 123000 psi              | 848 MPa            |             |
| Tangent : 73°F (23°C)                   | 135000 psi              | 931 MPa            |             |
| Flexural Strength (Yield, 73°F (23°C))  | 2900 psi                | 20.0 MPa           | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 13 ft·lb/in             | 690 J/m            | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C)) | No Break                | No Break           | ASTM D4812  |
| Gardner Impact                      | 275 in·lb               | 31.1 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            |             |

| Additional Information          |
|---------------------------------|
| Filler Content, ASTM D2584: 21% |

### Notes

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