

## Technical Data Sheet

**Ferrex GPP20CC66HB**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                           |                    |             |
|-------------------------------------------|-------------------------------------------|--------------------|-------------|
| Material Status                           | • Commercial: Active                      |                    |             |
| Availability                              | • Latin America                           | • North America    |             |
| Filler / Reinforcement                    | • Calcium Carbonate, 20% Filler by Weight |                    |             |
| Features                                  | • High Gloss                              | • Homopolymer      |             |
| Forms                                     | • Pellets                                 |                    |             |
| Physical                                  | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                | 1.09                                      | 1.09 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))     | 4400 psi                                  | 30.3 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 25 %                                      | 25 %               | ASTM D638   |
| Flexural Modulus                          |                                           |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 290000 psi                                | 2000 MPa           |             |
| Tangent : 73°F (23°C)                     | 321000 psi                                | 2210 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))    | 7100 psi                                  | 49.0 MPa           | ASTM D790   |
| Impact                                    | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Notched Izod Impact (73°F (23°C))         | 0.80 ft-lb/in                             | 43 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 17 ft-lb/in                               | 910 J/m            | ASTM D4812  |
| Gardner Impact                            | 85.0 in-lb                                | 9.60 J             | ASTM D5420  |
| Thermal                                   | Nominal Value (English)                   | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load         |                                           |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 240 °F                                    | 116 °C             |             |
| 264 psi (1.8 MPa), Unannealed             | 145 °F                                    | 62.8 °C            |             |
| Additional Information                    |                                           |                    |             |
| Filler Content, ASTM D2584: 21.5%         |                                           |                    |             |

**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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