

## Technical Data Sheet

### Polyfort GPP20CN05HB-WH FERREXWHI



Polypropylene, Homopolymer

#### Product Description

Polyfort GPP20CN05HB-WH FERREXWHI is a Polypropylene Homopolymer Calcium Carbonate, 22% filled material and is typically used in Injection Molding applications. Features include: Good Impact Resistance, High Gloss, and Homopolymer.

#### Regulatory Status

For regulatory compliance information, see GPP20CN05HB-WH FERREXWHI [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| <b>Status</b>               | Commercial: Active                              |
| <b>Availability</b>         | Latin America; North America                    |
| <b>Processing Method</b>    | Injection Molding                               |
| <b>Attribute</b>            | Good Impact Resistance; High Gloss; Homopolymer |
| <b>Forms</b>                | Pellets                                         |
| <b>Appearance</b>           | White                                           |
| <b>Application</b>          | Automotive Exterior Parts; Protective Coverings |
| <b>Filler/Reinforcement</b> | Calcium Carbonate, 22%                          |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 25            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.06          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength, (23 °C)                              | 17.2          | MPa               | ASTM D638   |
| Flexural Modulus                                       |               |                   |             |
| (23 °C, 1% Secant)                                     | 979           | MPa               | ASTM D790   |
| (23 °C, Tangent)                                       | 1100          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (23 °C)                   | 90            | %                 | ASTM D638   |
| Flexural Strength, (23 °C)                             | 25.5          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Gardner Impact, (23 °C)                                | 27.3          | J                 | ASTM D5420  |
| Unnotched Izod Impact, (23 °C)                         | No Break      |                   | ASTM D4812  |
| Notched Izod Impact, (23 °C)                           | 150           | J/m               | ASTM D256   |
| <b>Hardness</b>                                        |               |                   |             |
| Durometer Hardness, (Shore D)                          | 67            |                   | ASTM D2240  |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 54.4          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 113           | °C                | ASTM D648   |



| Injection Parameters    | Nominal Value  | Units              |
|-------------------------|----------------|--------------------|
| Drying Time             | 2.0 to 3.0     | hr                 |
| Drying Temperature      | 93             | °C                 |
| Clamp Tonnage           | 2.8 to 4.1     | kN/cm <sup>2</sup> |
| Nozzle Temperature      | 216 to 221     | °C                 |
| Screw Speed             | 100 to 150     | rpm                |
| Front Temperature       | 210 to 216     | °C                 |
| Screw L/D Ratio         | 20.0-1.0       |                    |
| Screw Compression Ratio | 2.0-1.0        |                    |
| Middle Temperature      | 204 to 210     | °C                 |
| Rear Temperature        | 199 to 204     | °C                 |
| Back Pressure           | 0.138 to 0.345 | MPa                |
| Mold Temperature        | 46 to 60       | °C                 |

## 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.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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