

## Technical Data Sheet

**Gapex RPP20EA76BK**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                                                                                     |                                     |                    |             |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------|
| Material Status                                                                                             | • Commercial: Active                |                    |             |
| Availability                                                                                                | • Latin America • North America     |                    |             |
| Filler / Reinforcement                                                                                      | • Glass Fiber, 21% Filler by Weight |                    |             |
| Features                                                                                                    | • Chemically Coupled                |                    |             |
| Forms                                                                                                       | • Pellets                           |                    |             |
| Physical                                                                                                    | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                                                                                  | 1.05                                | 1.05 g/cm³         | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                                                                   | 5.5 g/10 min                        | 5.5 g/10 min       | ASTM D1238  |
| Mechanical                                                                                                  | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Tensile Strength (73°F (23°C))                                                                              | 8900 psi                            | 61.4 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))                                                                     | 3.5 %                               | 3.5 %              | ASTM D638   |
| Flexural Modulus                                                                                            |                                     |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                                                                                     | 515000 psi                          | 3550 MPa           |             |
| Tangent : 73°F (23°C)                                                                                       | 530000 psi                          | 3650 MPa           |             |
| Flexural Strength (73°F (23°C))                                                                             | 13200 psi                           | 91.0 MPa           | ASTM D790   |
| Impact                                                                                                      | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Notched Izod Impact (73°F (23°C))                                                                           | 1.1 ft·lb/in                        | 59 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))                                                                         | 6.7 ft·lb/in                        | 360 J/m            | ASTM D4812  |
| Gardner Impact (73°F (23°C))                                                                                | 3.00 in·lb                          | 0.339 J            | ASTM D5420  |
| Thermal                                                                                                     | Nominal Value (English)             | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load                                                                           |                                     |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed                                                                               | 313 °F                              | 156 °C             |             |
| 264 psi (1.8 MPa), Unannealed                                                                               | 290 °F                              | 143 °C             |             |
| Additional Information                                                                                      |                                     |                    |             |
| Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted. |                                     |                    |             |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 160 to 180 °F           | 71 to 82 °C        |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Rear Temperature       | 430 to 460 °F           | 221 to 238 °C      |
| Middle Temperature     | 440 to 470 °F           | 227 to 243 °C      |
| Front Temperature      | 450 to 500 °F           | 232 to 260 °C      |
| Nozzle Temperature     | 450 to 500 °F           | 232 to 260 °C      |
| Processing (Melt) Temp | 430 to 460 °F           | 221 to 238 °C      |
| Mold Temperature       | 100 to 150 °F           | 38 to 66 °C        |
| Injection Rate         | Slow-Moderate           | Slow-Moderate      |
| Back Pressure          | 20.0 to 50.0 psi        | 0.138 to 0.345 MPa |
| Cushion                | 0.200 to 0.500 in       | 5.08 to 12.7 mm    |

### 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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