

Technical Data Sheet

## Gapex Hp RPP10EB89WH

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                     |                         |               |
|-------------------------------------------|-------------------------------------|-------------------------|---------------|
| Filler / Reinforcement                    | • Glass Fiber, 10% Filler by Weight |                         |               |
| Additive                                  | • Heat Stabilizer                   |                         |               |
| Features                                  | • Chemically Coupled                | • Heat Stabilized       | • Homopolymer |
| Forms                                     | • Pellets                           |                         |               |
| Physical                                  | Nominal Value (English)             | Nominal Value (SI)      | Test Method   |
| Density / Specific Gravity                | 1.00                                | 0.998 g/cm <sup>3</sup> | ASTM D792     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 8.5 g/10 min                        | 8.5 g/10 min            | ASTM D1238    |
| Mechanical                                | Nominal Value (English)             | Nominal Value (SI)      | Test Method   |
| Tensile Strength (Yield, 73°F (23°C))     | 6700 psi                            | 46.2 MPa                | ASTM D638     |
| Tensile Elongation (Break, 73°F (23°C))   | 5.0 %                               | 5.0 %                   | ASTM D638     |
| Flexural Modulus                          |                                     |                         | ASTM D790     |
| 1% Secant : 73°F (23°C)                   | 339000 psi                          | 2340 MPa                |               |
| Tangent : 73°F (23°C)                     | 357000 psi                          | 2460 MPa                |               |
| Flexural Strength (Yield, 73°F (23°C))    | 10400 psi                           | 71.7 MPa                | ASTM D790     |
| Impact                                    | Nominal Value (English)             | Nominal Value (SI)      | Test Method   |
| Notched Izod Impact (73°F (23°C))         | 1.0 ft·lb/in                        | 53 J/m                  | ASTM D256     |
| Unnotched Izod Impact (73°F (23°C))       | 7.3 ft·lb/in                        | 390 J/m                 | ASTM D4812    |
| Gardner Impact                            | 3.50 in·lb                          | 0.395 J                 | ASTM D5420    |
| Thermal                                   | Nominal Value (English)             | Nominal Value (SI)      | Test Method   |
| Deflection Temperature Under Load         |                                     |                         | ASTM D648     |
| 66 Psi (0.45 Mpa), Unannealed             | 305 °F                              | 152 °C                  |               |
| 264 Psi (1.8 Mpa), Unannealed             | 250 °F                              | 121 °C                  |               |
| Additional Information                    |                                     |                         |               |
| Filler Content, ASTM D2584: 13%           |                                     |                         |               |

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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.