

## Technical Data Sheet

**GAPEX®**

**HP RPP15EV14HB**

Polypropylene  
Engineering Plastics



| General                |                                     |                   |
|------------------------|-------------------------------------|-------------------|
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |                   |
| Additive               | • Impact Modifier                   |                   |
| Features               | • Chemically Coupled                | • Impact Modified |
| Appearance             | • Black                             |                   |
| Forms                  | • Pellets                           |                   |

| Physical                                  | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                | 1.02                    | 1.02 g/cm³         | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 10 g/10 min             | 10 g/10 min        | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield, 73°F (23°C))     | 8600 psi                | 59.3 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 4.3 %                   | 4.3 %              | ASTM D638   |
| Flexural Modulus                          |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 445000 psi              | 3070 MPa           |             |
| Tangent : 73°F (23°C)                     | 455000 psi              | 3140 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))    | 12700 psi               | 87.6 MPa           | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact (73°F (23°C))         | 2.0 ft·lb/in            | 110 J/m            | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 10 ft·lb/in             | 530 J/m            | ASTM D256   |
| Gardner Impact                            | 6.00 in·lb              | 0.678 J            | ASTM D5420  |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load         |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 315 °F                  | 157 °C             |             |
| 264 psi (1.8 MPa), Unannealed             | 280 °F                  | 138 °C             |             |

| Additional Information          |  |  |  |
|---------------------------------|--|--|--|
| Filler Content, ASTM D2584: 15% |  |  |  |

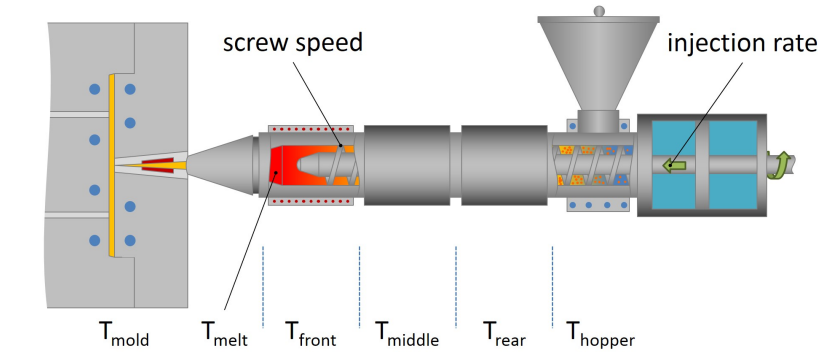


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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 160 to 180 °F           | 71 to 82 °C        |
| Drying Time            | 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.

