

Technical Data Sheet

**GAPEX®**

**HP RPP20EU98HB**

Polypropylene Copolymer  
Engineering Plastics



**General**

|                        |                                     |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features               | • Chemically Coupled • Copolymer    |
| Appearance             | • White                             |
| Forms                  | • Pellets                           |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.10                    | 1.10 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 3.5 g/10 min            | 3.5 g/10 min           | ASTM D1238  |
| Molding Shrinkage                         |                         |                        | ASTM D955   |
| Flow                                      | 3.0E-3 in/in            | 0.30 %                 |             |
| Across Flow                               | 0.010 in/in             | 1.0 %                  |             |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C))   | 9900 psi                | 68.3 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 4.5 %                   | 4.5 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 590000 psi              | 4070 MPa           |             |
| Tangent : 73°F (23°C)                   | 622000 psi              | 4290 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))  | 15200 psi               | 105 MPa            | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 2.3 ft·lb/in            | 120 J/m            | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C)) | 13 ft·lb/in             | 700 J/m            | ASTM D256   |
| Gardner Impact                      | 5.00 in·lb              | 0.565 J            | ASTM D5420  |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed     | 310 °F                  | 154 °C             |             |
| 264 psi (1.8 MPa), Unannealed     | 290 °F                  | 143 °C             |             |

**Additional Information**

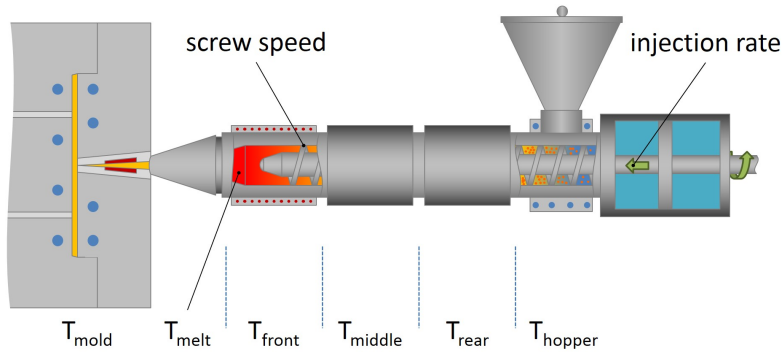
Filler Content, ASTM D2584: 26.5%

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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.