

## RheTech Products G13P100-00 13% Glass Fiber Reinforced Polypropylene, Natural

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler

### Material Notes:

Applications: Interior trim Air ducts - distribution Fuel filler pocket Injection molding conditions reported in table. Information provided by RheTech Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_RheTech-Products-G13P100-00-13-Glass-Fiber-Reinforced-Polypropylene-Natural.php](http://www.lookpolymers.com/polymer_RheTech-Products-G13P100-00-13-Glass-Fiber-Reinforced-Polypropylene-Natural.php)

| Physical Properties   | Metric  | English   | Comments           |
|-----------------------|---|---|--------------------|
| Specific Gravity      | 0.990 g/cc  | 0.990 g/cc  | 23/23°C; ASTM D792 |
| Filler Content        | 13 %  | 13 %  | ASTM D5630         |
| Linear Mold Shrinkage | 0.0040 cm/cm  | 0.0040 in/in  | ASTM D955          |
| Melt Flow             | 12 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 12 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238         |

| Mechanical Properties     | Metric                             | English                                | Comments            |
|---------------------------|------------------------------------|--|---------------------|
| Hardness, Shore D         | 72                                 | 72                                     | ASTM D2240          |
| Tensile Strength at Break | 55.2 MPa                           | 8000 psi                               | 2 in/min; ASTM D638 |
| Flexural Modulus          | 2.76 GPa                           | 400 ksi                                | Tangent; ASTM D790  |
| Izod Impact, Notched      | 0.427 J/cm<br>@Temperature 23.0 °C | 0.800 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256           |
| Gardner Impact            | 0.339 J                            | 0.250 ft-lb                            | ASTM D5420          |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 153 °C | 308 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 132 °C | 270 °F  | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 193 - 221 °C | 380 - 430 °F |          |
| Middle Barrel Temperature | 199 - 227 °C | 390 - 440 °F |          |
| Front Barrel Temperature  | 204 - 232 °C | 400 - 450 °F |          |

| Processing Properties | Metric           | English        | Comments    |
|-----------------------|------------------|----------------|-------------|
| Nozzle Temperature    | 210 - 221 °C     | 410 - 430 °F   |             |
| Mold Temperature      | 26.7 - 48.9 °C   | 80.0 - 120 °F  |             |
| Drying Temperature    | 65.6 - 82.2 °C   | 150 - 180 °F   |             |
| Dry Time              | 1 - 2 hour       | 1 - 2 hour     |             |
| Moisture Content      | <= 0.050 %       | <= 0.050 %     | Recommended |
| Injection Pressure    | 2.76 - 10.3 MPa  | 400 - 1500 psi |             |
| Hold Pressure         | 2.07 - 8.27 MPa  | 300 - 1200 psi |             |
| Back Pressure         | 0.345 - 1.03 MPa | 50.0 - 150 psi |             |

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