

## RheTech Products GC20P100-00UV 20% Glass Fiber Reinforced Polypropylene, Chemically Coupled, UV Stabilized, Natural

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

### Material Notes:

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-GC20P100-00UV-20-Glass-Fiber-Reinforced-Polypropylene-Chemically-Coupled-UV-Stabilized-Natural.php](http://www.lookpolymers.com/polymer_RheTech-Products-GC20P100-00UV-20-Glass-Fiber-Reinforced-Polypropylene-Chemically-Coupled-UV-Stabilized-Natural.php)

| Physical Properties   | Metric                                               | English                                              | Comments           |
|-----------------------|------------------------------------------------------|------------------------------------------------------|--------------------|
| Specific Gravity      | 1.04 g/cc                                            | 1.04 g/cc                                            | 23/23°C; ASTM D792 |
| Filler Content        | 20 %                                                 | 20 %                                                 | ASTM D5630         |
| Linear Mold Shrinkage | 0.0028 cm/cm                                         | 0.0028 in/in                                         | ASTM D955          |
| Melt Flow             | 5.0 g/10 min<br>@Load 2.16 kg,<br>Temperature 230 °C | 5.0 g/10 min<br>@Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238         |

| Mechanical Properties     | Metric                             | English                               | Comments            |
|---------------------------|------------------------------------|---------------------------------------|---------------------|
| Hardness, Shore D         | 75                                 | 75                                    | ASTM D2240          |
| Tensile Strength at Break | 66.2 MPa                           | 9600 psi                              | 2 in/min; ASTM D638 |
| Flexural Modulus          | 3.59 GPa                           | 520 ksi                               | Tangent; ASTM D790  |
| Izod Impact, Notched      | 0.694 J/cm<br>@Temperature 23.0 °C | 1.30 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256           |
| Gardner Impact            | 0.451 J                            | 0.333 ft-lb                           | ASTM D5420          |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 158 °C | 316 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 138 °C | 280 °F  | ASTM D648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 199 - 227 °C | 390 - 440 °F |          |
| Middle Barrel Temperature | 204 - 232 °C | 400 - 450 °F |          |
| Front Barrel Temperature  | 210 - 238 °C | 410 - 460 °F |          |

| Processing Properties | Metric <sup>27 °C</sup> | English <sup>10 °F</sup> | Comments    |
|-----------------------|-------------------------|--------------------------|-------------|
| 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           |             |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China