

## PlastiComp Complet® LGF20 - TPU Rigid Thermoplastic Polyurethane, 20% Long Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Glass Fiber Reinforced

### Material Notes:

Complet® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Polyurethane with 20% long glass fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PlastiComp-Complet-LGF20-TPU-Rigid-Thermoplastic-Polyurethane-20-Long-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_PlastiComp-Complet-LGF20-TPU-Rigid-Thermoplastic-Polyurethane-20-Long-Glass-Fiber-Reinforced.php)

| Physical Properties | Metric    | English   | Comments         |
|---------------------|-----------|-----------|------------------|
| Specific Gravity    | 1.33 g/cc | 1.33 g/cc | ASTM D-792       |
| Filler Content      | 20 %      | 20 %      | Long Glass Fiber |

| Mechanical Properties  | Metric      | English        | Comments    |
|------------------------|-------------|----------------|-------------|
| Tensile Strength       | 145 MPa     | 21000 psi      | ASTM D-638  |
| Elongation at Break    | 2.0 - 3.0 % | 2.0 - 3.0 %    | ASTM D-638  |
| Tensile Modulus        | 6.897 GPa   | 1000 ksi       | ASTM D-638  |
| Flexural Strength      | 221 MPa     | 32100 psi      | ASTM D-790  |
| Flexural Modulus       | 6.207 GPa   | 900.3 ksi      | ASTM D-790  |
| Izod Impact, Notched   | 2.67 J/cm   | 5.00 ft-lb/in  | ASTM D-256  |
| Izod Impact, Unnotched | 11.75 J/cm  | 22.01 ft-lb/in | ASTM D-4812 |

| Thermal Properties                          | Metric  | English | Comments   |
|---------------------------------------------|---------|---------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 °C | 185 °F  | ASTM D-648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 204 - 227 °C | 400 - 440 °F |          |
| Middle Barrel Temperature | 210 - 232 °C | 410 - 450 °F |          |
| Front Barrel Temperature  | 216 - 238 °C | 420 - 460 °F |          |
| Nozzle Temperature        | 221 - 243 °C | 430 - 470 °F |          |
| Melt Temperature          | 216 - 238 °C | 420 - 460 °F |          |

| Mold Temperature<br>Processing Properties | 87.8 °C<br>Metric          | 190 °F<br>English         | Comments |
|-------------------------------------------|----------------------------|---------------------------|----------|
| Injection Velocity                        | 50.8 - 76.2 mm/sec         | 2.00 - 3.00 in/sec        |          |
| Drying Temperature                        | 88.0 °C<br>@Time 14400 sec | 190 °F<br>@Time 4.00 hour |          |
| Moisture Content                          | <= 0.020 %                 | <= 0.020 %                |          |
| Back Pressure                             | 0.172 - 0.345 MPa          | 25.0 - 50.0 psi           |          |
| Cushion                                   | 0.635 cm                   | 0.250 in                  |          |
| Screw Speed                               | 30 - 50 rpm                | 30 - 50 rpm               |          |

| Descriptive Properties | Value             | Comments |
|------------------------|-------------------|----------|
| Injection Pressure     | Medium to maximum |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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