

## PlastiComp Complet® LGF50 - PP Homopolymer Polypropylene, 50% Long Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 50% Glass Fiber Filler

### Material Notes:

Complēt® long-fiber reinforced pellets are manufactured to exceed expectation for quality and performance. Polypropylene with 50% long glass fiber reinforcement. Information provided by PlastiComp, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PlastiComp-Complet-LGF50-PP-Homopolymer-Polypropylene-50-Long-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_PlastiComp-Complet-LGF50-PP-Homopolymer-Polypropylene-50-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      | 50 %      | 50 %      | Long Glass Fiber |

| Mechanical Properties  | Metric     | English       | Comments    |
|------------------------|------------|---------------|-------------|
| Tensile Strength       | 123 MPa    | 17800 psi     | ASTM D-638  |
| Elongation at Break    | 2.0 %      | 2.0 %         | ASTM D-638  |
| Tensile Modulus        | 10.345 GPa | 1500.4 ksi    | ASTM D-638  |
| Flexural Strength      | 190 MPa    | 27600 psi     | ASTM D-790  |
| Flexural Modulus       | 8.621 GPa  | 1250 ksi      | ASTM D-790  |
| Izod Impact, Notched   | 3.42 J/cm  | 6.41 ft-lb/in | ASTM D-256  |
| Izod Impact, Unnotched | 9.08 J/cm  | 17.0 ft-lb/in | ASTM D-4812 |

| Thermal Properties                          | Metric | English | Comments   |
|---------------------------------------------|--------|---------|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 153 °C | 307 °F  | ASTM D-648 |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature   | 199 - 210 °C | 390 - 410 °F |          |
| Middle Barrel Temperature | 204 - 216 °C | 400 - 420 °F |          |
| Front Barrel Temperature  | 210 - 221 °C | 410 - 430 °F |          |
| Nozzle Temperature        | 204 - 216 °C | 400 - 420 °F |          |
| Melt Temperature          | 210 - 221 °C | 410 - 430 °F |          |
| Mold Temperature          | 79.4 °C      | 175 °F       |          |

| Processing Properties | Metric <b>76.2 mm/sec</b> | English <b>.00 in/sec</b> | Comments |
|-----------------------|---------------------------|---------------------------|----------|
| Drying Temperature    | 93.0 °C<br>@Time 7200 sec | 199 °F<br>@Time 2.00 hour |          |
| 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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