

## Oxford Polymers PPS-40GF PPS, 40% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

### Material Notes:

Product Description: Glass Fiber (40% Reinforced), Polyphenylene sulfide injection molding grade Processing and Delivery Form: Pellets and Injection Molding Appearance: Natural or Black Information provided by Oxford Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Oxford-Polymers-PPS-40GF-PPS-40-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Oxford-Polymers-PPS-40GF-PPS-40-Glass-Fiber-Reinforced.php)

| Physical Properties            | Metric                              | English                              | Comments  |
|--------------------------------|-------------------------------------|--------------------------------------|-----------|
| Density                        | 1.60 g/cc                           | 0.0578 lb/in <sup>3</sup>            | ASTM D792 |
| Water Absorption at Saturation | 0.0200 %                            | 0.0200 %                             | ASTM D570 |
| Linear Mold Shrinkage, Flow    | 0.00250 cm/cm<br>@Thickness 3.17 mm | 0.00250 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties     | Metric                           | English                              | Comments  |
|---------------------------|----------------------------------|--------------------------------------|-----------|
| Tensile Strength at Break | 131 MPa                          | 19000 psi                            | ASTM D638 |
| Elongation at Break       | 1.50 %                           | 1.50 %                               | ASTM D638 |
| Flexural Strength         | 172 MPa                          | 25000 psi                            | ASTM D790 |
| Flexural Modulus          | 11.4 GPa                         | 1650 ksi                             | ASTM D790 |
| Izod Impact, Notched      | 0.534 J/cm<br>@Thickness 3.17 mm | 1.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric       | English        | Comments              |
|---------------------------------------------|--------------|----------------|-----------------------|
| CTE, linear                                 | 10.8 µm/m-°C | 6.00 µin/in-°F | ASTM D696             |
| Deflection Temperature at 1.8 MPa (264 psi) | 260 °C       | 500 °F         | Unannealed; ASTM D648 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 293 - 321 °C | 560 - 610 °F |          |
| Mold Temperature      | 135 - 177 °C | 275 - 350 °F |          |
| Drying Temperature    | <= 121 °C    | <= 250 °F    |          |
| Dry Time              | 4.00 hour    | 4.00 hour    |          |

## 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