

## Polymer Resources TP-HG30 Polybutylene Terephthalate, 30% Glass Reinforced Alloy

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

### Material Notes:

Polybutylene Terephthalate, 30% Glass Reinforced Alloy Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polymer-Resources-TP-HG30-Polybutylene-Terephthalate-30-Glass-Reinforced-Alloy.php](http://www.lookpolymers.com/polymer_Polymer-Resources-TP-HG30-Polybutylene-Terephthalate-30-Glass-Reinforced-Alloy.php)

| Physical Properties   | Metric                                                    | English                                                   | Comments   |
|-----------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------|
| Specific Gravity      | 1.50 g/cc                                                 | 1.50 g/cc                                                 | ASTM D792  |
| Linear Mold Shrinkage | 0.0060 - 0.0090 cm/cm                                     | 0.0060 - 0.0090 in/in                                     | ASTM D955  |
| Melt Flow             | 8.0 - 20 g/10 min<br>@Load 2.16 kg,<br>Temperature 250 °C | 8.0 - 20 g/10 min<br>@Load 4.76 lb,<br>Temperature 482 °F | ASTM D1238 |

| Mechanical Properties     | Metric                             | English                               | Comments  |
|---------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength at Break | 103 MPa                            | 15000 psi                             | ASTM D638 |
| Tensile Strength, Yield   | 103 MPa                            | 15000 psi                             | ASTM D638 |
| Flexural Strength         | 165 MPa                            | 24000 psi                             | ASTM D790 |
| Flexural Modulus          | 6.89 GPa                           | 1000 ksi                              | ASTM D790 |
| Izod Impact, Notched      | 0.694 J/cm<br>@Temperature 22.8 °C | 1.30 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric                   | English                    | Comments  |
|---------------------------------------------|--------------------------|----------------------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 216 °C                   | 420 °F                     | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 188 °C                   | 370 °F                     | ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 1.59 mm | HB<br>@Thickness 0.0626 in |           |
|                                             | HB<br>@Thickness 3.17 mm | HB<br>@Thickness 0.125 in  |           |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties     | Metric           | English          | Comments |
|---------------------------|------------------|------------------|----------|
| Middle Barrel Temperature | 243 - 260 °C     | 470 - 500 °F     |          |
| Front Barrel Temperature  | 249 - 266 °C     | 480 - 510 °F     |          |
| Melt Temperature          | 232 - 260 °C     | 450 - 500 °F     |          |
| Mold Temperature          | 71.1 - 87.8 °C   | 160 - 190 °F     |          |
| Drying Temperature        | 116 - 121 °C     | 240 - 250 °F     |          |
| Dry Time                  | 3.00 - 4.00 hour | 3.00 - 4.00 hour |          |

| Descriptive Properties | Value  | Comments |
|------------------------|--------|----------|
| Vent                   | 0.0005 |          |

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