

## Techmer ES HiFill® ABS GM30 LE 30% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 30% Glass Fiber Filled

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight Features: Low

Extractables Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-ABS-GM30-LE-30-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-ABS-GM30-LE-30-Glass-Filled.php)

| Physical Properties         | Metric   | English  | Comments   |
|-----------------------------|--|--|------------|
| Density                     | 1.28 g/cc  | 0.0462 lb/in <sup>3</sup>                            | ASTM D792  |
| Water Absorption            | 0.12 %<br>@Time 86400 sec                            | 0.12 %<br>@Time 24.0 hour                            | ASTM D570  |
| Linear Mold Shrinkage, Flow | 0.0010 cm/cm<br>@Thickness 3.17 mm                   | 0.0010 in/in<br>@Thickness 0.125 in                  | ASTM D955  |
| Melt Flow                   | 3.0 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 °C | 3.0 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 108                              | 108                                  | ASTM D785 |
| Tensile Strength, Yield | 100 MPa                          | 14500 psi                            | ASTM D638 |
| Elongation at Yield     | 3.3 %                            | 3.3 %                                | ASTM D638 |
| Flexural Yield Strength | 128 MPa                          | 18500 psi                            | ASTM D790 |
| Flexural Modulus        | 7.58 GPa                         | 1100 ksi                             | ASTM D790 |
| Izod Impact, Notched    | 0.801 J/cm<br>@Thickness 3.17 mm | 1.50 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched  | 4.00 J/cm<br>@Thickness 3.17 mm  | 7.50 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric       | English        | Comments              |
|---|--------------|----------------|-----------------------|
| CTE, linear, Parallel to Flow               | 28.8 µm/m-°C | 16.0 µin/in-°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 112 °C       | 233 °F         | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa           | 103 °C       | 218 °F         |                       |

| <small>(264 psi)</small><br>Thermal Properties | Metric          | English         | Unannealed; ASTM D648<br>Comments |
|--|-----------------|-----------------|-----------------------------------|
| Electrical Properties                          | Metric          | English         | Comments                          |
| Volume Resistivity                             | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257                         |
| Dielectric Strength                            | 17.7 kV/mm      | 450 kV/in       | Method A (Short-Time); ASTM D149  |

## 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