

## Techmer ES HiFill® PA6 CM40 HS 40% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled , Nylon 6, Heat Stabilized

### Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Mineral Filler, 40% Filler by Weight Additive: Heat Stabilizer and Lubricant Features: Heat Stabilized and Lubricated Appearance: Natural Color Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-CM40-HS-40-Mineral-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-CM40-HS-40-Mineral-Filled.php)

| Physical Properties         | Metric                             | English                             | Comments  |
|-----------------------------|------------------------------------|-------------------------------------|-----------|
| Density                     | 1.48 g/cc                          | 0.0535 lb/in <sup>3</sup>           | ASTM D792 |
| Water Absorption            | 0.95 %<br>@Time 86400 sec          | 0.95 %<br>@Time 24.0 hour           | ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm<br>@Thickness 3.17 mm | 0.0070 in/in<br>@Thickness 0.125 in | ASTM D955 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 121                              | 121                                  | ASTM D785 |
| Tensile Strength, Yield | 86.9 MPa                         | 12600 psi                            | ASTM D638 |
| Elongation at Break     | 3.0 %                            | 3.0 %                                | ASTM D638 |
| Flexural Strength       | 131 MPa                          | 19000 psi                            | ASTM D790 |
| Flexural Modulus        | 5.72 GPa                         | 830 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 |
| Izod Impact, Unnotched  | 3.20 J/cm<br>@Thickness 3.17 mm  | 6.00 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric         | English          | Comments              |
|---------------------------------------------|----------------|------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 7.20 Åµm/m-Å°C | 4.00 Åµin/in-Å°F | ASTM D696             |
| Deflection Temperature at 0.46 MPa (66 psi) | 204 Å°C        | 400 Å°F          | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 119 Å°C        | 247 Å°F          | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Volume Resistivity<br>Electrical Properties | 1.00e+13 ohm-cm<br>Metric | 1.00e+13 ohm-cm<br>English | ASTM D257<br>Comments            |
|---------------------------------------------|---------------------------|----------------------------|----------------------------------|
| Dielectric Strength                         | 18.1 kV/mm                | 460 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