

## Techmer ES Electrafil® J-1/CF/30/TF/15 Nylon 66, 30% Carbon Fiber Reinforced, PTFE Lubed

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Carbon Fiber/PTFE Filled

### Material Notes:

Carbon Fiber Reinforced, PTFE Lubricated

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrafil-J-1CF30TF15-Nylon-66-30-Carbon-Fiber-Reinforced-PTFE-Lubed.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-1CF30TF15-Nylon-66-30-Carbon-Fiber-Reinforced-PTFE-Lubed.php)

| Physical Properties   | Metric                             | English                             | Comments          |
|-----------------------|------------------------------------|-------------------------------------|-------------------|
| Density               | 1.38 g/cc                          | 0.0499 lb/in <sup>3</sup>           | ASTM D792         |
| Water Absorption      | 0.60 %                             | 0.60 %                              | 24 hrs; ASTM D570 |
| Linear Mold Shrinkage | 0.0010 cm/cm<br>@Thickness 3.17 mm | 0.0010 in/in<br>@Thickness 0.125 in | ASTM D955         |

| Mechanical Properties      | Metric                           | English                              | Comments  |
|----------------------------|----------------------------------|--------------------------------------|-----------|
| Tensile Strength, Ultimate | 207 MPa                          | 30000 psi                            | ASTM D638 |
| Elongation at Break        | 2.6 %                            | 2.6 %                                | ASTM D638 |
| Flexural Yield Strength    | 296 MPa                          | 43000 psi                            | ASTM D790 |
| Flexural Modulus           | 17.9 GPa                         | 2600 ksi                             | ASTM D790 |
| Compressive Yield Strength | 138 MPa                          | 20000 psi                            | ASTM D256 |
| Izod Impact, Notched       | 0.961 J/cm<br>@Thickness 3.17 mm | 1.80 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric                                  | English                                   | Comments  |
|---|---|---|-----------|
| CTE, linear                                 | 14.4 Åµm/m-Å°C<br>@Temperature 20.0 Å°C | 8.00 Åµin/in-Å°F<br>@Temperature 68.0 Å°F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 254 Å°C                                 | 489 Å°F                                   | ASTM D648 |

| Electrical Properties  | Metric             | English            | Comments   |
|------------------------|--------------------|--------------------|------------|
| Electrical Resistivity | 1.00 - 10.0 ohm-cm | 1.00 - 10.0 ohm-cm | ASTM C611  |
| Surface Resistance     | 100 - 1000 ohm     | 100 - 1000 ohm     | ASTM D4496 |

## **Contact Songhan Plastic Technology Co.,Ltd.**

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