

## Samyang Tripet® 2500G30 Polyethylene Terephthalate, 30% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

### Material Notes:

TRIPET® has excellent heat resistance, good surface, chemical resistance and high electrical performance. Applications: Coil  
Bobbin Connector Motor Housing Lamp Housing Relay Base Iron body All information provided by Samyang

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Samyang-Tripet-2500G30-Polyethylene-Terephthalate-30-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Samyang-Tripet-2500G30-Polyethylene-Terephthalate-30-Glass-Fiber-Reinforced.php)

| Physical Properties   | Metric                                              | English                                             | Comments   |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|------------|
| Specific Gravity      | 1.53 g/cc                                           | 1.53 g/cc                                           | ASTM D792  |
| Water Absorption      | 0.10 %<br>@Time 86400 sec                           | 0.10 %<br>@Time 24.0 hour                           | ASTM D570  |
| Linear Mold Shrinkage | 0.0020 - 0.0040 cm/cm<br>@Thickness 3.00 mm         | 0.0020 - 0.0040 in/in<br>@Thickness 0.118 in        | ASTM D955  |
| Melt Flow             | 65 g/10 min<br>@Load 5.00 kg,<br>Temperature 265 °C | 65 g/10 min<br>@Load 11.0 lb,<br>Temperature 509 °F | ASTM D1238 |

| Mechanical Properties   | Metric                           | English                              | Comments  |
|-------------------------|----------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R    | 122                              | 122                                  | ASTM D785 |
| Tensile Strength, Yield | 162 MPa                          | 23500 psi                            | ASTM D638 |
| Elongation at Break     | 6.0 %                            | 6.0 %                                | ASTM D638 |
| Flexural Yield Strength | 230 MPa                          | 33400 psi                            | ASTM D790 |
| Flexural Modulus        | 8.83 GPa                         | 1280 ksi                             | ASTM D790 |
| Izod Impact, Unnotched  | 0.883 J/cm<br>@Thickness 3.17 mm | 1.65 ft-lb/in<br>@Thickness 0.125 in | ASTM D256 |

| Thermal Properties                          | Metric       | English        | Comments  |
|---------------------------------------------|--------------|----------------|-----------|
| CTE, linear                                 | 30.0 µm/m-°C | 16.7 µin/in-°F | ASTM D696 |
| Melting Point                               | 255 °C       | 491 °F         |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 250 °C       | 482 °F         | ASTM D648 |
| Deflection Temperature at 1.8 MPa           | 230 °C       | 446 °F         | ASTM D648 |

| (264 psi)<br>Thermal Properties | Metric             | English              | Comments |
|---------------------------------|--------------------|----------------------|----------|
| Flammability, UL94              | HB                 | HB                   |          |
|                                 | @Thickness 1.59 mm | @Thickness 0.0625 in |          |

| Electrical Properties | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Volume Resistivity    | 4.00e+16 ohm-cm       | 4.00e+16 ohm-cm       | ASTM D257 |
| Dielectric Constant   | 3.5                   | 3.5                   | ASTM D150 |
|                       | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
| Dielectric Strength   | 24.0 kV/mm            | 610 kV/in             | ASTM D149 |
| Dissipation Factor    | 0.013                 | 0.013                 | ASTM D150 |
|                       | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
| Arc Resistance        | 125 sec               | 125 sec               | ASTM D495 |

## Contact Songhan Plastic Technology Co.,Ltd.

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