

## Eurotec® Tecodur® PB70 GR45 NL100 HS01 PBT/PET, 45% glass fiber reinforced, heat stabilized, natural

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polybutylene Terephthalate (PBT), Heat Resistant , Polyethylene Terephthalate (PET)

### Material Notes:

Information provided by Eurotec®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecodur-PB70-GR45-NL100-HS01-PBTPET-45-glass-fiber-reinforced-heat-stabilized-natural.php](http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR45-NL100-HS01-PBTPET-45-glass-fiber-reinforced-heat-stabilized-natural.php)

| Physical Properties | Metric                          | English                         | Comments        |
|---------------------|---------------------------------|---------------------------------|-----------------|
| Density             | 1.68 g/cc                       | 0.0607 lb/in <sup>3</sup>       | ISO 1183        |
| Moisture Absorption | 0.100 %<br>@Temperature 23.0 °C | 0.100 %<br>@Temperature 73.4 °F | 50% RH; ISO 960 |

| Mechanical Properties      | Metric  | English   | Comments   |
|----------------------------|---|---|------------|
| Tensile Strength at Break  | 140 MPa   | 20300 psi   | ISO 527    |
| Elongation at Break        | 1.5 %   | 1.5 %   | ISO 527    |
| Tensile Modulus            | 16.0 GPa  | 2320 ksi  | ISO 527    |
| Izod Impact, Notched (ISO) | 8.00 kJ/m <sup>2</sup><br>@Temperature 23.0 °C  | 3.81 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | ISO 180/1A |
|                            | 8.00 kJ/m <sup>2</sup><br>@Temperature -30.0 °C | 3.81 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | ISO 180/1A |

| Thermal Properties                          | Metric                    | English                    | Comments              |
|---|---------------------------|----------------------------|-----------------------|
| Melting Point                               | 225 °C                    | 437 °F                     | [10 K/min], ISO 11357 |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C                    | 419 °F                     | ISO 75                |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C                    | 401 °F                     | ISO 75                |
| Flammability, UL94                          | HB<br>@Thickness 0.750 mm | HB<br>@Thickness 0.0295 in |                       |
|   | HB<br>@Thickness 1.60 mm  | HB<br>@Thickness 0.0630 in |                       |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | IEC 60093 |
| Surface Resistance    | 1.00e+14 ohm    | 1.00e+14 ohm    | IEC 60093 |

| Processing Properties  | Metric           | English          | Comments |
|------------------------|------------------|------------------|----------|
| Processing Temperature | 260 - 280 °C     | 500 - 536 °F     |          |
| Feed Temperature       | 50.0 - 70.0 °C   | 122 - 158 °F     | Throat   |
| Mold Temperature       | 60.0 - 110 °C    | 140 - 230 °F     |          |
| Drying Temperature     | 120 °C           | 248 °F           |          |
| Dry Time               | 4.00 - 6.00 hour | 4.00 - 6.00 hour |          |
| Moisture Content       | <= 0.080 %       | <= 0.080 %       | ISO 960  |
| Hold Pressure          | 40.0 - 80.0 MPa  | 5800 - 11600 psi |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Back Pressure          | Low   |          |
| Injection Speed        | Fast  |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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