

## Eurotec® Tecodur® PB70 NL SV20 PBT, unfilled, flame retardant - halogen (RoHS compliant), natural

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

### Material Notes:

Information provided by Eurotec®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecodur-PB70-NL-SV20-PBT-unfilled-flame-retardant-halogen-RoHS-compliant-natural.php](http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-NL-SV20-PBT-unfilled-flame-retardant-halogen-RoHS-compliant-natural.php)

| Physical Properties               | Metric                          | English                         | Comments        |
|-----------------------------------|---------------------------------|---------------------------------|-----------------|
| Density                           | 1.43 g/cc                       | 0.0517 lb/in <sup>3</sup>       | ISO 1183        |
| Moisture Absorption               | 0.200 %<br>@Temperature 23.0 °C | 0.200 %<br>@Temperature 73.4 °F | 50% RH; ISO 960 |
| Linear Mold Shrinkage, Flow       | 0.015 cm/cm                     | 0.015 in/in                     | Eurotec         |
| Linear Mold Shrinkage, Transverse | 0.015 cm/cm                     | 0.015 in/in                     | Eurotec         |

| Mechanical Properties      | Metric                                          | English                                             | Comments   |
|----------------------------|-------------------------------------------------|-----------------------------------------------------|------------|
| Tensile Strength at Break  | 60.0 MPa                                        | 8700 psi                                            | ISO 527    |
| Tensile Modulus            | 3.00 GPa                                        | 435 ksi                                             | ISO 527    |
| Izod Impact, Notched (ISO) | 4.00 kJ/m <sup>2</sup><br>@Temperature -30.0 °C | 1.90 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | ISO 180/1A |
|                            | 5.00 kJ/m <sup>2</sup><br>@Temperature 23.0 °C  | 2.38 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °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) | 165 °C                     | 329 °F                      | ISO 75                |
| Deflection Temperature at 1.8 MPa (264 psi) | 65.0 °C                    | 149 °F                      | ISO 75                |
| Flammability, UL94                          | V-0<br>@Thickness 1.60 mm  | V-0<br>@Thickness 0.0630 in |                       |
|                                             | V-0<br>@Thickness 0.750 mm | V-0<br>@Thickness 0.0295 in |                       |

| Thermal Properties | 960 °C<br>Metric   | 1760 °F<br>English   | Comments           |
|--------------------|--------------------|----------------------|--------------------|
|                    | @Thickness 2.00 mm | @Thickness 0.0787 in | UL94 V-0 IEC 60695 |

| 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             |
| Comparative Tracking Index | 225 V           | 225 V           | Solution A; IEC 60112 |

| Processing Properties  | Metric           | English          | Comments |
|------------------------|------------------|------------------|----------|
| Processing Temperature | 250 - 270 °C     | 482 - 518 °F     |          |
| Feed Temperature       | 50.0 - 70.0 °C   | 122 - 158 °F     | Throat   |
| Mold Temperature       | 60.0 - 100 °C    | 140 - 212 °F     |          |
| Drying Temperature     | 120 °C           | 248 °F           |          |
| Dry Time               | 2.00 - 4.00 hour | 2.00 - 4.00 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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