

## Eurotec® Tecodur® PB70 KK45 NL XA 20 PBT 45% glass fiber/mineral reinforced, UL94 V0, low warpage

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

### Material Notes:

Excellent stiffness and hardnessGood mechanical strengthGood creep and fatigue behaviorVery good thermal stabilityExcellent flammability characteristicsGood electrical propertiesHigh wear resistance and low frictionGood dimensional stabilityVery good chemical resistanceExcellent flow and processing propertiesLow moisture absorptionVery good surface finish

APPLICATIONS:  
AutomotiveElectrical/ElectronicBusiness equipmentConstructionHome appliances

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecodur-PB70-KK45-NL-XA-20-PBT-45-glass-fibermineral-reinforced-UL94-V0-low-warpage.php](http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-KK45-NL-XA-20-PBT-45-glass-fibermineral-reinforced-UL94-V0-low-warpage.php)

| Physical Properties                | Metric       | English                   | Comments                                  |
|------------------------------------|--------------|---------------------------|-------------------------------------------|
| Density                            | 1.82 g/cc    | 0.0658 lb/in <sup>3</sup> | ISO 1183                                  |
| Filler Content                     | 45 %         | 45 %                      | ISO 3451                                  |
| Moisture Absorption at Equilibrium | 0.10 %       | 0.10 %                    | Humidity Absorption, 50% RH, 23°C; ISO 62 |
| Water Absorption at Saturation     | 0.25 %       | 0.25 %                    | 23°C; ISO 62                              |
| Linear Mold Shrinkage              | 0.0030 cm/cm | 0.0030 in/in              |                                           |
| Linear Mold Shrinkage, Transverse  | 0.0090 cm/cm | 0.0090 in/in              |                                           |

| Mechanical Properties      | Metric                  | English                    | Comments   |
|----------------------------|-------------------------|----------------------------|------------|
| Tensile Strength at Break  | 100 MPa                 | 14500 psi                  | ISO 527    |
| Elongation at Break        | 1.5 %                   | 1.5 %                      | ISO 527    |
| Tensile Modulus            | 10.0 GPa                | 1450 ksi                   | ISO 527    |
| Izod Impact, Notched (ISO) | 4.00 kJ/m <sup>2</sup>  | 1.90 ft-lb/in <sup>2</sup> | ISO 180/1A |
|                            | @Temperature -30.0 °C   | @Temperature -22.0 °F      |            |
|                            | 5.00 kJ/m <sup>2</sup>  | 2.38 ft-lb/in <sup>2</sup> | ISO 180/1A |
|                            | @Temperature 23.0 °C    | @Temperature 73.4 °F       |            |
| Charpy Impact Unnotched    | 2.50 J/cm <sup>2</sup>  | 11.9 ft-lb/in <sup>2</sup> | ISO 179/eU |
|                            | @Temperature -30.0 °C   | @Temperature -22.0 °F      |            |
|                            | 3.00 J/cm <sup>2</sup>  | 14.3 ft-lb/in <sup>2</sup> | ISO 179/eU |
|                            | @Temperature 23.0 °C    | @Temperature 73.4 °F       |            |
|                            | 0.500 J/cm <sup>2</sup> | 2.38 ft-lb/in <sup>2</sup> |            |

| Charpy Impact, Notched<br>Mechanical Properties | Metric<br>@ Temperature -30.0 °C | English<br>@ Temperature -22.0 °F | ISO 179/eA<br>Comments |
|-------------------------------------------------|----------------------------------|-----------------------------------|------------------------|
|                                                 | 0.600 J/cm²                      | 2.86 ft-lb/in²                    | ISO 179/eA             |
|                                                 | @Temperature 23.0 °C             | @Temperature 73.4 °F              |                        |

| Thermal Properties                          | Metric             | English              | Comments           |
|---------------------------------------------|--------------------|----------------------|--------------------|
| Melting Point                               | 225 °C             | 437 °F               | 10 K/min; ISO 3146 |
| Deflection Temperature at 0.46 MPa (66 psi) | 210 °C             | 410 °F               | ISO 75-1/2         |
| Deflection Temperature at 1.8 MPa (264 psi) | 195 °C             | 383 °F               | ISO 75-1/2         |
| Vicat Softening Point                       | 190 °C             | 374 °F               | 50N; ISO 306       |
| Flammability, UL94                          | V-0                | V-0                  |                    |
|                                             | @Thickness 1.60 mm | @Thickness 0.0630 in |                    |
|                                             | V-0                | V-0                  |                    |
|                                             | @Thickness 3.20 mm | @Thickness 0.126 in  |                    |
| Glow Wire Test                              | 960 °C             | 1760 °F              | plaque; IEC 60695  |
|                                             | @Thickness 2.00 mm | @Thickness 0.0787 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 |
| Comparative Tracking Index | 300 V           | 300 V           | IEC 60112 |

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