

Eurotec® Tecodur® PB70 GR50 NL PBT 50% glass fiber reinforced

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

Material Notes:

Excellent stiffness and hardness
Good mechanical strength
Good creep and fatigue behavior
Very good thermal stability
Excellent flammability characteristics
Good electrical properties
High wear resistance and low friction
Good dimensional stability
Very good chemical resistance
Excellent flow and processing properties
Low moisture absorption
Very good surface finish

APPLICATIONS:
Automotive
Electrical/Electronic
Business equipment
Construction
Home appliances

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR50-NL-PBT-50-glass-fiber-reinforced.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------|---------------------------|---|
| Density | 1.70 g/cc | 0.0614 lb/in ³ | ISO 1183 |
| Filler Content | 50 % | 50 % | 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 | 0.0020 cm/cm | 0.0020 in/in | |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|------------|
| Tensile Strength at Break | 155 MPa | 22500 psi | ISO 527 |
| Elongation at Break | 1.5 % | 1.5 % | ISO 527 |
| Tensile Modulus | 15.0 GPa | 2180 ksi | ISO 527 |
| Flexural Strength | 250 MPa | 36300 psi | ISO 178 |
| Flexural Modulus | 12.5 GPa | 1810 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 10.0 kJ/m ² @Temperature -30.0 °C | 4.76 ft-lb/in ² @Temperature -22.0 °F | ISO 180/1A |
| | 12.0 kJ/m ² @Temperature 23.0 °C | 5.71 ft-lb/in ² @Temperature 73.4 °F | ISO 180/1A |
| Charpy Impact Unnotched | 5.50 J/cm ² @Temperature -30.0 °C | 26.2 ft-lb/in ² @Temperature -22.0 °F | ISO 179/eU |
| | 6.50 J/cm ² @Temperature 23.0 °C | 30.9 ft-lb/in ² @Temperature 73.4 °F | ISO 179/eU |

| Mechanical Properties | Metric | English | Comments |
|------------------------|------------------------|----------------------------|------------|
| Charpy Impact, Notched | @Temperature -30.0 °C | @Temperature -22.0 °F | ISO 179/eA |
| | 1.30 J/cm ² | 6.19 ft-lb/in ² | 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) | 220 °C | 428 °F | ISO 75-1/2 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F | ISO 75-1/2 |
| Vicat Softening Point | 215 °C | 419 °F | 50N; ISO 306 |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Glow Wire Test | 650 °C | 1200 °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 | 500 V | 500 V | IEC 60112 |

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