

Eurotec® Tecodur® PB70 GR10 NL PBT 10% 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-GR10-NL-PBT-10-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Filler Content	10 %	10 %	ISO 3451
Moisture Absorption at Equilibrium	0.18 %	0.18 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	0.45 %	0.45 %	23°C; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	4.50 GPa	653 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.610 J/cm ²	2.19 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm ²	3.33 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)	215 °C	419 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ISO 75-1/2
Vicat Softening Point	200 °C	392 °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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