

Eurotec® Tecodur® PB70 GR45 NL PBT 45% 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-GR45-NL-PBT-45-glass-fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	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	0.27 %	0.27 %	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	150 MPa	21800 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ISO 527
Tensile Modulus	14.0 GPa	2030 ksi	ISO 527
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	14.0 kJ/m ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/eU
	7.00 J/cm ² @Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.50 J/cm ²	7.14 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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