

## Eurotec® Tecodur® PB70 GF45 NL PBT 45% filled, high gloss, increased density

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-GF45-NL-PBT-45-filled-high-gloss-increased-density.php](http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GF45-NL-PBT-45-filled-high-gloss-increased-density.php)

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 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	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	ISO 179/eU Comments
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	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)	195 °C	383 °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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