

## Eurotec® Tecodur® PB70 GR15 NL PBT 15% 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-GR15-NL-PBT-15-glass-fiber-reinforced.php](http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR15-NL-PBT-15-glass-fiber-reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Filler Content	15 %	15 %	ISO 3451
Moisture Absorption at Equilibrium	0.16 %	0.16 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	0.43 %	0.43 %	23°C; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	6.00 GPa	870 ksi	ISO 527
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.50 GPa	798 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/1A
	7.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup> @Temperature -30.0 °C	21.4 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/eU
	5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.710 J/cm <sup>2</sup>	3.31 ft-lb/in <sup>2</sup>	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm <sup>2</sup>	3.81 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)	200 °C	392 °F	ISO 75-1/2
Vicat Softening Point	205 °C	401 °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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