

Eurotec® Tecodur® PB70 GR30 NL XA 21 PBT/PET 30% glass fiber reinforced, UL94 V0

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

Material Notes:

Excellent stiffness and hardnessGood mechanical strengthGood creep and fatigue behaviorVery good thermal stabilityExcellent flammability characteristicsGood electrical propertiesHigh wear resistance and low frictionGood dimensional stabilityVery good chemical resistanceExcellent flow and processing propertiesLow moisture absorptionVery good surface finish

APPLICATIONS:
AutomotiveElectrical/ElectronicBusiness equipmentConstructionHome appliances

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http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR30-NL-XA-21-PBTPET-30-glass-fiber-reinforced-UL94-V0.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Filler Content	30 %	30 %	ISO 3451
Moisture Absorption at Equilibrium	0.10 %	0.10 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	23°C; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	11.5 GPa	1670 ksi	ISO 527
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	8.00 kJ/m ²	3.81 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	
	0.800 J/cm ²	3.81 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/eA Comments
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 - 250 °C	437 - 482 °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	210 °C	410 °F	50N; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °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	225 V	225 V	IEC 60112

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