

Eurotec® Tecodur® PB70 NL XA 20 PBT unreinforced, UL94 V0

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-NL-XA-20-PBT-unreinforced-UL94-V0.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Filler Content	0.00 %	0.00 %	ISO 3451
Moisture Absorption at Equilibrium	0.15 %	0.15 %	Humidity Absorption, 50% RH, 23°C; ISO 62
Water Absorption at Saturation	0.40 %	0.40 %	23°C; ISO 62
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527
Tensile Modulus	2.75 GPa	399 ksi	ISO 527
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °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	
Charpy Impact, Notched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO 179/eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179/eA Comments
	@ 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)	170 °C	338 °F	ISO 75-1/2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/2
Vicat Softening Point	180 °C	356 °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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