

Eurotec® Tecodur® PB50 NL PBT, unfilled, natural, high viscosity

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB50-NL-PBT-unfilled-natural-high-viscosity.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.200 % @Temperature 23.0 °C	0.200 % @Temperature 73.4 °F	50% RH; ISO 960
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
Tensile Modulus	2.50 GPa	363 ksi	ISO 527
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 180/1U
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	[10 K/min], ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
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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

Processing Properties	Metric	English	Comments
Processing Temperature	240 - 260 °C	464 - 500 °F	
Feed Temperature	50.0 - 70.0 °C	122 - 158 °F	Throat
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Moisture Content	<= 0.080 %	<= 0.080 %	ISO 960
Hold Pressure	40.0 - 80.0 MPa	5800 - 11600 psi	

Descriptive Properties	Value	Comments
Back Pressure	Low	
Injection Speed	Medium - Fast	

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