

Eurotec® Tecodur® PB70 GR30 NL SV20 PBT, 30% glass fiber reinforced, flame retardant - halogen (RoHS compliant), heat stabilized, natural

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Heat Resistant

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR30-NL-SV20-PBT-30-glass-fiber-reinforced-flame-retardant-halogen-RoHS-compliant-heat-stabilized-natural.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 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	0.0030 cm/cm	0.0030 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	65.0 kJ/m ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75

Thermal Properties	Metric	English	Comments
Vicat Softening Point	210 °C @Load 5.10 kg	410 °F @Load 11.2 lb	ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	725 °C @Thickness 2.00 mm	1340 °F @Thickness 0.0787 in	GWIT; IEC 60695
	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	GWFI; IEC 60695

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	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 260 °C	446 - 500 °F	
Feed Temperature	50.0 - 70.0 °C	122 - 158 °F	Throat
Mold Temperature	50.0 - 100 °C	122 - 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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