

Eurotec® Tecodur® PB70 GR17 BK002 FA20 PBT, 17% glass fiber reinforced, flame retardant - halogen (RoHS compliant), black

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecodur-PB70-GR17-BK002-FA20-PBT-17-glass-fiber-reinforced-flame-retardant-halogen-RoHS-compliant-black.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 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	0.0040 cm/cm	0.0040 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	6.50 GPa	943 ksi	ISO 527
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75
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	700 °C	1290 °F	GWIT; IEC 60695

Thermal Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
	960 °C	1760 °F	GWFI; 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	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	60.0 - 110 °C	140 - 230 °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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