

Eurotec® Tecopet® PT70 KK45 PET, 45% glass fiber/mineral reinforced, flame retardant - halogen (RoHS compliant), heat stabilized, natural

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecopet-PT70-KK45-PET-45-glass-fibermineral-reinforced-flame-retardant-halogen-RoHS-compliant-heat-stabilized-natural.php

Physical Properties	Metric	English	Comments
Density	1.83 g/cc	0.0661 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	0.0020 cm/cm	0.0020 in/in	Eurotec
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Eurotec

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	1.5 %	1.5 %	ISO 527
Tensile Modulus	13.0 GPa	1890 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

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	[10 K/min], ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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	

Thermal Properties	875 °C Metric	1610 °F English	Comments
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	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	200 V	200 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	260 - 280 °C	500 - 536 °F	
Feed Temperature	50.0 - 70.0 °C	122 - 158 °F	Throat
Mold Temperature	120 - 140 °C	248 - 284 °F	
Drying Temperature	120 - 140 °C	248 - 284 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.080 %	<= 0.080 %	ISO 960
Hold Pressure	60.0 - 100 MPa	8700 - 14500 psi	

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

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