

Eurotec® Tecopet® PT70 GR30 NL100 PR PET, 30% glass fiber reinforced, high heat stabilized, natural, fast crystallization grade

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

Information provided by Eurotec®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurotec-Tecopet-PT70-GR30-NL100-PR-PET-30-glass-fiber-reinforced-high-heat-stabilized-natural-fast-crystallization-grade.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 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	150 MPa	21800 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	10.5 GPa	1520 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)	45.0 kJ/m ² @Temperature -30.0 °C	21.4 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1U
	55.0 kJ/m ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1U

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	[10 K/min], ISO 11357
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ISO 75
Deflection Temperature at 1.8 MPa	230 °C	446 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75 Comments
Vicat Softening Point	230 °C @Load 5.10 kg	446 °F @Load 11.2 lb	ISO 306
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 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	250 V	250 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 290 °C	518 - 554 °F	
Feed Temperature	50.0 - 70.0 °C	122 - 158 °F	Throat
Mold Temperature	90.0 - 120 °C	194 - 248 °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	Fast	

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