

Tisan TISESTER® 15% Glass Fiber Reinforced and Heat Stabilized Polybutylene Terephthalate

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

Material Notes:

TISESTER has a wide area of application in automotive, electric/electronics and durable goods industries. General Specifications include:
Excellent surface appearanceHigh corrosion and abrasion resistanceExcellent toughnessHigh temperature resistanceExcellent chemical resistanceElectrical isolation and arc resistanceHigh performanceEasy processabilityFast cycle time Glass fiber reinforcement imparts high shrinkage resistance and impact resistance to TISESTER products, yielding improvements in thermal features as well. PBT is resistant against solvents, exhibits low shrinkage during shaping, and it is mechanically strong, heat resistant for temperatures up to 150°C, and can be reinforced for flame retardance. Tisester compounds display sufficient resistance against hydrocarbons, alcohols, ethers, acids, and alkali solvents.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tisan-TISESTER-15-Glass-Fiber-Reinforced-and-Heat-Stabilized-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Ash	15 %	15 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ISO 868
Tensile Strength at Break	115 MPa	16700 psi	ISO 527-2
Tensile Strength, Yield	110 MPa	16000 psi	ISO 527-2
Elongation at Break	3.7 %	3.7 %	ISO 527-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-2
Modulus of Elasticity	4.50 GPa	653 ksi	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m²	2.86 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	225 - 230 °C	437 - 446 °F	
Vicat Softening Point	214 °C	417 °F	ISO 306
Heat Distortion Temperature	216 °C	421 °F	ISO 75-2
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Comparative Tracking Index	400 V	400 V	TS EN 60112
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Processing Properties	Metric	English	Comments
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Feed Temperature	70.0 °C	158 °F	
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Rear Barrel Temperature	220 - 250 °C	428 - 482 °F	Aft-1. Region Temperature
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Middle Barrel Temperature	220 - 250 °C	428 - 482 °F	Mid-2. Region Temperature
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Front Barrel Temperature	220 - 250 °C	428 - 482 °F	Pre-3. Region Temperature
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Nozzle Temperature	225 °C	437 °F	
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Melt Temperature	220 - 230 °C	428 - 446 °F	
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Drying Temperature	110 - 120 °C	230 - 248 °F	Predrying Temperature
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Dry Time	4 - 5 hour	4 - 5 hour	Predrying Time
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Moisture Content	0.30 %	0.30 %	ISO 62
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Descriptive Properties	Value	Comments
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Block Temperature	80°C	
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