

Tisan TISESTER® Flame Retardant (V0). Heat Stabilized Polybutylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

TISESTER has a wide area of application in automotive, electric/electronics and durable goods industries. General Specifications include: Excellent surface appearance High corrosion and abrasion resistance Excellent toughness High temperature resistance Excellent chemical resistance Electrical isolation and arc resistance High performance Easy processability Fast 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-Flame-Retardant-V0-Heat-Stabilized-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength at Break	51.0 MPa	7400 psi	ISO 527-2
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-2
Elongation at Break	5.0 %	5.0 %	ISO 527-2
Elongation at Yield	4.9 %	4.9 %	ISO 527-2
Modulus of Elasticity	2.70 GPa	392 ksi	ISO 527-2
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	225 - 230 °C	437 - 446 °F	
Vicat Softening Point	175 °C	347 °F	ISO 306
Heat Distortion Temperature	165 °C	329 °F	ISO 75-2
Flammability, UL94	V-0	V-0	
Glow Wire Test	960 °C	1760 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	300 V	300 V	TS EN 60112

Processing Properties	Metric	English	Comments
Feed Temperature	70.0 °C	158 °F	
Rear Barrel Temperature	220 - 250 °C	428 - 482 °F	Aft-1. Region Temperature
Middle Barrel Temperature	220 - 250 °C	428 - 482 °F	Mid-2. Region Temperature
Front Barrel Temperature	220 - 250 °C	428 - 482 °F	Pre-3. Region Temperature
Nozzle Temperature	225 °C	437 °F	
Melt Temperature	220 - 230 °C	428 - 446 °F	
Drying Temperature	110 - 120 °C	230 - 248 °F	Predrying Temperature
Dry Time	4 - 5 hour	4 - 5 hour	Predrying Time
Moisture Content	0.30 %	0.30 %	ISO 62

Descriptive Properties	Value	Comments
Block Temperature	80°C	

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