

Tisan TISESTER® UNR Polybutylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

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. Tiseester 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-UNR-Polybutylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ISO 868
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-2
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-2
Elongation at Break	50 %	50 %	ISO 527-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-2
Modulus of Elasticity	2.50 GPa	363 ksi	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	225 - 230 °C	437 - 446 °F	
Vicat Softening Point	170 °C	338 °F	ISO 306
Heat Distortion Temperature	160 °C	320 °F	ISO 75-2
Flammability, UL94	HB	HB	
Glow Wire Test	750 °C	1380 °F	60695-2-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 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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