

Tisester® PBT UNR FR

Polybutylene Terephthalate

Tisan

Message:

Tisester® PBT UNR FR is a Polybutylene Terephthalate (PBT) material. It is available in Africa & Middle East or Europe for injection molding.

Important attributes of Tisester® PBT UNR FR are:

- Flame Rated
- Flame Retardant
- Heat Stabilizer

General Information			
Additive	Flame Retardant Heat Stabilizer		
Features	Flame Retardant Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage	1.6	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	50.0	MPa	
Break	51.0	MPa	
Tensile Strain			ISO 527-2
Yield	4.9	%	
Break	5.0	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	165	°C	ISO 75-2/Be
Vicat Softening Temperature	175	°C	ISO 306/B120
Melting Temperature	225 to 230	°C	
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index (3.00 mm)	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (3.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	220 to 225	°C	
Middle Temperature	220 to 225	°C	
Front Temperature	220 to 225	°C	
Nozzle Temperature	225	°C	
Processing (Melt) Temp	220 to 230	°C	
Mold Temperature	80.0	°C	

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Recommended distributors for this material

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