

Tisester® PBT 30 GFR IS

Polybutylene Terephthalate

Tisan

Message:

Tisester® PBT 30 GFR IS is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in Africa & Middle East or Europe for injection molding.

Important attributes of Tisester® PBT 30 GFR IS are:

Flame Rated

Heat Stabilizer

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage	0.30	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Ash Content	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	150	MPa	
Break	152	MPa	
Tensile Strain			ISO 527-2
Yield	2.5	%	
Break	2.7	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	9.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	220	°C	ISO 75-2/Be
Vicat Softening Temperature	222	°C	ISO 306/B120
Melting Temperature	225 to 230	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (3.00 mm)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (3.00 mm)	750	°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 250	°C	
Middle Temperature	220 to 250	°C	
Front Temperature	220 to 250	°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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

