

Tisester® PBT 15 GFR

Polybutylene Terephthalate

Tisan

Message:

Tisester® PBT 15 GFR is a Polybutylene Terephthalate (PBT) material filled with 15% glass fiber. It is available in Africa & Middle East or Europe for injection molding. Primary attribute of Tisester® PBT 15 GFR: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
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	0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Ash Content	15	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	110	MPa	
Break	115	MPa	
Tensile Strain			ISO 527-2
Yield	3.5	%	
Break	3.7	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	207	°C	ISO 75-2/Be
Vicat Softening Temperature	205	°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

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