

Tisester® PBT UNR

Polybutylene Terephthalate

Tisan

Message:

Tisester® PBT UNR is a Polybutylene Terephthalate (PBT) material. It is available in Africa & Middle East or Europe for injection molding. Primary attribute of Tisester® PBT UNR: Flame Rated.

General Information			
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage	1.7	%	
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	55.0	MPa	
Break	50.0	MPa	
Tensile Strain			ISO 527-2
Yield	3.5	%	
Break	50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	160	°C	ISO 75-2/Be
Vicat Softening Temperature	170	°C	ISO 306/B120
Melting Temperature	225 to 230	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (3.00 mm)	600	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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