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T1000 Product Data Sheet

T1000 Phenolic Glass Laminate with Enhanced Temperature Resistance SRBG

Material Details

Grade:	T1000
Description:	Technolaque Sheet Modified phenolic glass with enhanced temperature resistance
Comments:	Technolaque T1000 is a cost effective composite sheet, which exhibits good thermal stability and thermal shock resistance coupled with high mechanical strength. It may be used as an economical alternative to Polyimide Glass in some applications. Important attributes of the composite are :- - Low moisture absorption - Excellent dimensional stability - Excellent resistance to thermal shock - High flexural modulus - Excellent resistance to thermal cycling - Excellent solvent resistance - High flexural strength - High Impact strength
Body Colour:	Dark Brown
Cover Colour:	Dark Brown
Finish:	Matt
Size:	1220 x 1220 Thickness Range: 0.4 - 100.0

Typical Applications

- Chemical Resistance Components
- Electromechanical Machining Jigs
- High Temperature Components
- High Voltage Insulation
- Low Voltage Insulation
- Terminal Boards and Tag Strips
- Thermal Splash Barriers
- Welding Jigs

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.9 - 2.0
Flammability Category†	--	FV-0
Glass Content	--	65-70

¥ Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

Property	Unit of measure	Typical Value
IR (24hrs Water Immersed)	G Ω	100
IR (Dry)	G Ω	100
Electric Strength (Flat Rapid)	MV/m	75
Breakdown Voltage (Edge Step by Step)	kV	12

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	375
Compressive Strength (Flat 20°C)	MPa	550
Impact (Notched CHARPY)	kJ/m2	75

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	160
Thermal Shock	°C	250+

Property	Unit of measure	Typical Value
Coefficient Linear Expansion	°C	15

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user’s responsibility to ensure suitability for the intended end use.

Source: https://www.attwater.com/products/t1000/