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T1000 Product Data Sheet

Material Details

| | |
|-------------------------|---|
| Grade: | T1000. (Type: Glass Based Laminates - SRBG) |
| 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 |
| Standard Finish: | Matt |
| Size: | 1220 x 1220 Thickness Range: 0.4 - 100.0 † |

Typical Applications

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

General Properties

| Property | Unit of measure | Typical Value |
|------------------------|-------------------|---------------|
| Density | g/cm ³ | 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 □ | 100 |
| IR (Dry) | G □ | 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/m ² | 75 |

Thermal Properties

| Property | Unit of measure | Typical Value |
|------------------------------|-----------------|---------------|
| Thermal Rating Continuous | °C | 160 |
| Thermal Shock | °C | 250+ |
| Coefficient Linear Expansion | °C | 15 |

Notes

- Datasheet Issue No. 2

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/>