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G10 Product Data Sheet

Material Details

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|------------------|---|
| Grade: | G10. (Type: Glass Based Laminates - SRBG) |
| Description: | Epoxy Glass. Commercial epoxy grade |
| Comments: | General purpose Epoxy glass laminate. Temperature class B (130 deg C), with good mechanical and electrical properties at moderate cost. See also B46. |
| Specifications: | BSEN60893-3-2-EPGC201 (Which supersedes BS3953 EP3). The closest NEMA equivalent to this specification is NEMA G10. |
| Body Colour: | Green |
| Cover Colour: | Green |
| Standard Finish: | Satin/Glossy |
| Size: | 1220 x 1220 Thickness Range: 0.4 - 150.0 † |

Typical Applications

- Transformer Spacers
- Terminal Boards and Tag Strips
- Slot Wedges
- Precision Machined Parts
- Pipeline Insulation
- Phase Barriers
- Insulating Bushes Spacers
- Sleeves
- High Voltage Insulation
- Electromagnetic Coil Insulation
- Cryogenic Resistance Components
- Chemical Resistance Components

General Properties

| Property | Unit of measure | Typical Value |
|------------------|-----------------|---------------|
| Density | g/cm3 | 2 |
| Water Absorption | mg | 8 |

‡ 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 □ | 17000 |

| Property | Unit of measure | Typical Value |
|---------------------------------------|-----------------|---------------|
| IR (Dry) | G □ | 17000 |
| Electric Strength (Flat Rapid) | kV/mm | 15 |
| Breakdown Voltage (Edge Step by Step) | kV | 80 |
| Relative Permittivity @ 1 MHz | - | 5.2 |
| Dissipation Factor @ 1 MHz | - | 0.025 |
| Tracking Index | V | 210 |

Mechanical Properties

| Property | Unit of measure | Typical Value |
|-------------------------|-----------------|---------------|
| Flexural Strength | MPa | 485 |
| Impact (Notched CHARPY) | kJ/m2 | 60 |

Thermal Properties

| Property | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous | °C | 130 |
| Thermal Rating Intermittent | °C | 140 |

Notes

- Datasheet Issue No. 3

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/g10/>