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## B30 Product Data Sheet

### Material Details

|                         |  |
|-------------------------|--|
| <b>Grade:</b>           | B30. (Type: Glass Based Laminates - SRBG)  |
| <b>Description:</b>     | Phenolic Glass. High temperature low smoke emission  |
| <b>Comments:</b>        | The high quality resin systems used impart good electrical insulation and high mechanical strength, low water absorption and good thermal shock resistance. Suitable for general purpose use at Class F temperatures and above. Low smoke emission / low toxicity. LUL Approved (SE970). |
| <b>Specifications:</b>  | BSEN60893-3-4-PFGC201 (Which supersedes BS3953 PF2). The closest NEMA equivalent to this specification is NEMA G3.   |
| <b>Body Colour:</b>     | Dark Brown   |
| <b>Cover Colour:</b>    | Dark Brown   |
| <b>Standard Finish:</b> | Matt   |
| <b>Size:</b>            | 1220 x 1220 Thickness Range: 0.4 - 100.0 †   |

### Typical Applications

- Welding Jigs
- Thermal Splash Barriers
- Terminal Boards and Tag Strips
- Slot Wedges
- 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/cm3           | 1.9           |
| Water Absorption       | mg              | 56            |
| Flammability Category¥ | -               | FV0           |

¥ 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 □             | 7.6           |
| IR (Dry)                              | G □             | 7.6           |
| Electric Strength (Flat Rapid)        | MV/m            | 8.1           |
| Breakdown Voltage (Edge Step by Step) | kV              | 44            |
| Tracking Index                        | V               | 110           |

Mechanical Properties

| Property                | Unit of measure | Typical Value |
|-------------------------|-----------------|---------------|
| Flexural Strength       | MPa             | 360           |
| Tensile Strength        | MPa             | 200           |
| Impact (Notched CHARPY) | kJ/m2           | 52            |

Thermal Properties

| Property                    | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous   | °C              | 155           |
| Thermal Rating Intermittent | °C              | 200           |

Notes

- Datasheet Issue No. 1

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/b30/>