

**Date Generated: Wednesday 11th of February 2026****B48 Product Data Sheet****BSEN60893-3-2-EPGC308 B48 Epoxy Glass Laminate SRBG****Material Details**

|                        |  |
|------------------------|--|
| <b>Grade:</b>          | B48  |
| <b>Description:</b>    | Epoxy Glass. Epoxy glass laminate, Similar to B36 - elevated mechanicals at temperature.   |
| <b>Comments:</b>       | Similar to B36 but with enhanced mechanical properties at elevated temperatures. Thermal Class H (180 deg C). Improved flexural strength at 150 deg C after heat ageing. Uses include high speed rotating machinery and applications where improved heat distortion characteristics are important. |
| <b>Specifications:</b> | BSEN60893-3-2-EPGC308 (Which supersedes BS3953 EP7). The closest NEMA equivalent to this specification is NEMA G11   |
| <b>Body Colour:</b>    | Green/Brown  |
| <b>Cover Colour:</b>   | Green/Brown  |
| <b>Finish:</b>         | Satin/Glossy   |
| <b>Size:</b>           | 1220 x 1220  |
|                        | Thickness Range: 0.4 - 100.0   |

**Typical Applications**

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

General Properties

| Property         | Unit of measure | Typical Value |
|------------------|-----------------|---------------|
| Density          | g/cm3           | 1.9           |
| Water Absorption | mg              | 10            |

¥ 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             | 30000         |
| IR (Dry)                              | G Ω             | 30000         |
| Electric Strength (Flat Rapid)        | kV/mm           | 17            |
| Breakdown Voltage (Edge Step by Step) | kV              | 80            |
| Relative Permittivity @ 1 MHz         | --              | 5             |
| Dissipation Factor @ 1 MHz            | --              | 0.02          |
| Tracking Index                        | V               | 220           |

Mechanical Properties

| Property                   | Unit of measure | Typical Value |
|----------------------------|-----------------|---------------|
| Flexural Strength          | MPa             | 490           |
| Flexural Strength at 150°C | MPa             | 350           |
| Tensile Strength           | MPa             | 230           |
| Impact (Notched CHARPY)    | kJ/m2           | 80            |

Thermal Properties

| Property                    | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous   | °C              | 180           |
| Thermal Rating Intermittent | °C              | 190           |

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/b48/>