Attwater & Sons Ltd +44 (0)1772 258245
Email: info@attwater.com
www.attwater.com

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B46 Product Data Sheet

BSEN60893-3-2-EPGC201 B46 Epoxy Glass Laminate SRBG

Material Details

Grade:	B46
Description:	Epoxy Glass. Epoxy glass laminate with improved machinability
Comments:	General purpose Epoxy glass laminate. Temperature class B (130 C), with good mechanical and electrical properties at moderate cost. Similar to G10 with a modified resin system to improve machinability.
Specifications:	BSEN60893-3-2-EPGC201 (Which supersedes BS3953 EP3). The closest NEMA equivalent to this specification is NEMA G10
Body Colour:	Pale Green
Cover Colour:	Pale Green
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.4 - 150.0

Typical Applications

- Bolts and Screws
- Chemical Resistance Components
- Coil Formers
- Cryogenic Resistance Components
- Electromechanical Machining Jigs
- High Voltage Insulation
- Mechanical Applications
- Phase Barriers
- Precision Machined Parts
- Track Resistance
- Transformer Spacers

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.9
Water Absorption	mg	9

¥ 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	15
Breakdown Voltage (Edge Step by Step)	kV	75
Relative Permittivity @ 1 MHz	--	4.8
Dissipation Factor @ 1 MHz	--	0.02
Tracking Index	V	210

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	485
Tensile Strength	MPa	210
Impact (Notched CHARPY)	kJ/m2	55

Thermal Properties

Property	Unit of measure	Typical Value

Thermal Rating Continuous	°C	120
Thermal Rating Intermittent	°C	130

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/b46/