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B38 (FR) Product Data Sheet

BSEN60893-3-2-EPGC202 B38 Epoxy Glass Laminate SRBG

Material Details

Grade:	B38 (FR)
Description:	Epoxy Glass. Flame retardant epoxy glass laminate
Comments:	Flame retardant Epoxy glass laminate. Class B applications incorporating a brominated resin system. Very good electrical, mechanical and machining characteristics. For all electrical and electronic applications.
Specifications:	BSEN60893-3-2-EPGC202 (Which supersedes BS3953 EP4). The closest NEMA equivalent to this specification is NEMA FR4
Body Colour:	Pale Green
Cover Colour:	Pale Green
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.4 - 175.0

Typical Applications

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

General Properties

Property	Unit of measure	Typical Value
Density	g/cm ³	1.9
Water Absorption	mg	7
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 Ω	30000
IR (Dry)	G Ω	30000
Electric Strength (Flat Rapid)	kV/mm	16
Breakdown Voltage (Edge Step by Step)	kV	89
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	492
Tensile Strength	MPa	220
Impact (Notched CHARPY)	kJ/m ²	55

Thermal Properties

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

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/b38-fr/>