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B30 Product Data Sheet

BSEN60893-3-4-PFGC201 B30 Phenolic Glass Laminate SRBG

Material Details

Grade:	B30
Description:	Phenolic Glass. High temperature low smoke emission
Comments:	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).
Specifications:	BSEN60893-3-4-PFGC201 (Which supersedes BS3953 PF2). The closest NEMA equivalent to this specification is NEMA G3
Body Colour:	Dark Brown
Cover Colour:	Dark Brown
Finish:	Matt
Size:	1220 x 1220 Thickness Range: 0.4 - 100.0

Typical Applications

- Chemical Resistance Components
- Electromechanical Machining Jigs
- High Temperature Components
- High Voltage Insulation
- Low Voltage Insulation
- Slot Wedges
- Terminal Boards and Tag Strips
- Thermal Splash Barriers
- Welding Jigs

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 Ω	7.6
IR (Dry)	G Ω	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

Property	Unit of measure	Typical Value
Thermal Rating Intermittent	°C	200

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/