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B36 Product Data Sheet

BSEN60893-3-2-EPGC203 B36 Epoxy Glass Laminate SRBG

Material Details

Grade:	B36
Description:	Epoxy Glass. Superior epoxy glass laminate
Comments:	A high strength Class F rigid insulation with many uses ranging from slot wedges in small motors to major components in turbo-alternators and electronic applications. B36 has excellent electrical and mechanical properties, good dimensional stability and machines well.
Specifications:	BSEN60893-3-2-EPGC203 (Which supersedes BS3953 EP5). The closest NEMA equivalent to this specification is NEMA G11
Body Colour:	Pale Green
Cover Colour:	Pale Green
Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.4 - 100.0

Typical Applications

- Bolt Insulation
- Cryogenic Resistance Components
- Electromechanical Components
- High Temperature Components
- Insulating Bushes Spacers Sleeves
- Jigs and Fixtures
- Mechanical Applications
- PCB Electronics Assembly
- Phase Barriers
- Pipeline Insulation
- Precision Machined Parts
- Slot Wedges

- Terminal Boards and Tag Strips

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
Electric Strength (Flat Rapid)	kV/mm	17
Breakdown Voltage (Edge Step by Step)	kV	82
Relative Permittivity @ 1 MHz	--	4.8
Dissipation Factor @ 1 MHz	--	0.02
Tracking Index	V	220

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	460
Flexural Strength at 150°C	MPa	290
Impact (Notched CHARPY)	kJ/m2	90

Thermal Properties

Property	Unit of measure	Typical Value

Thermal Rating Continuous	°C	155
Thermal Rating Intermittent	°C	165

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/b36/