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B32 Product Data Sheet

Material Details

Grade:	B32. (Type: Glass Based Laminates - SRBG)
Description:	Silicone Glass. High temperature low smoke emission low dielectric loss.
Comments:	High temperature class H/C rating. Moderate mechanical strength, high electrical strength and very low moisture absorption. Low dielectric loss factor and high insulation resistance. Suitable for furnace insulation, H.F radar and microwave applications. Resistant to burning (V-0 rated) Minimal smoke emission / toxicity. LUL approved (SE970).
Specifications:	BSEN60893-SIGC201 & 202 (Which supersedes BS3953 SI4 & SI5). The closest NEMA equivalent to this specification is NEMA G7.
Body Colour:	White
Cover Colour:	White
Standard Finish:	Satin/Matt
Size:	1220 x 1220 Thickness Range: 0.4 - 100.0 †

Typical Applications

- Welding Jigs
- Track Resistance
- Thermal Splash Barriers
- Microwave Windows
- Low Loss Insulation
- High Voltage Insulation
- High Temperature Components
- High Frequency Insulation
- Bag Sealing Applications

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.85
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 □	7000
IR (Dry)	G □	7000
Electric Strength (Flat Rapid)	MV/m	16.5
Breakdown Voltage (Edge Step by Step)	kV	105
Relative Permittivity @ 1 MHz	-	4.2
Dissipation Factor @ 1 MHz	-	0.005
Tracking Index	V	>600

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	180
Tensile Strength	MPa	150
Impact (Notched CHARPY)	kJ/m2	54

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	200
Thermal Rating Intermittent	°C	240

Notes

- Datasheet Issue No. 1

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/b32/>