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GE308 Product Data Sheet

Material Details

Grade:	GE308. (Type: Glass Based Laminates - SRBG)
Description:	Epoxy Glass. Similar to B36 - elevated mechanicals at temp
Comments:	This grade has been developed for applications where improved thermal stability at elevated temperatures is required. The laminate is capable of continuous operation at class 180 (H) temperatures. This performance has been achieved using specially developed resin systems which ensure high mechanical and electrical strength, excellent resistance to high temperature and good dimensional stability. Technolaque? GE308 offers this unique combination of properties at a competitive price.
Specifications:	BSEN60893-3-2-EPGC308 (Which supersedes BS3953 EP7). The closest NEMA equivalent to this specification is NEMA G11+.
Body Colour:	Pale Green
Cover Colour:	Pale Green
Standard Finish:	Satin/Glossy
Size:	1220 x 1220 Thickness Range: 0.4 - 100.0 †

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.7-1.9
Water Absorption	mg	14 mg

¥ 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 □	20000
IR (Dry)	G □	20000
Electric Strength (Flat Rapid)	MV/m	>20

Property	Unit of measure	Typical Value
Breakdown Voltage (Edge Step by Step)	kV	>80
Dissipation Factor @ 1 MHz	-	0.05
Dissipation Factor @ 50 Hz	-	0.025

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	>430
Flexural Strength at 150°C	MPa	>260
Flexural Modulus	MPa	24
Tensile Strength	MPa	220
Impact (Notched CHARPY)	kJ/m2	50

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	180
Thermal Rating Intermittent	°C	200 - see datasheet

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/ge308/