



G11 Fiberglass Laminates

This product is specially-formulated to meet the exacting standards of electronic and power generation applications, and provides excellent physical, mechanical and electrical properties at both room and elevated temperatures. It can withstand temperatures of 155°C for a long time.

Standard

- IEC 60893-3:2003
- GB/T 1303.4-2009

Flame Resistance

UL94-HB

Heat Resistance

Class F

Regular Size

- 1220*1020/1020*1020mm
- 1220*2040/1020*2040mm
- 1220*2440mm

Raw Material

Adhesive / High temperature resistant epoxy resin
Reinforcing material / Electronic grade fiber glass cloth

Certificate Available

UL RoHS REACH MSDS CEMT
Factory Inspection Report

Applications

- ▶ Wet environment and transformer oil;
- ▶ High-voltage switches and cabinets, motors and electrical equipments as insulating structural parts;
- ▶ Insulation materials at both ends of motor stator, rotor end plates, rotor insulation sheets, inductor accessories, slot wedges, wiring boards, etc.



Technical Data Sheet

Product name	NEMA GRADE G11 / EPGC 203 / HGW 2372.4	
SECTION I - MISC CHARACTERISTICS		
Density	g/cm ³	1.95-2.05
Flammability	UL94	N/A
Water absorption (5mm)	%	≤0.12
Chemical family	Resin	Epoxy
Reinforcement type	Glass fabrics	7628
Thermal characteristics	°C	155
Colour	Green (Nature), Yellow	
SECTION II- MECHANICAL CHARACTERISTICS		
Bending strength	MPa	≥450
Tensile strength	MPa	≥350
Compressive strength ⊥	MPa	≥450
Modulus of elasticity	MPa	≥24000
Impact strength //	kJ/m ²	≥33
SECTION III- ELECTRICAL CHARACTERISTICS		
Electrical strength ⊥	kV/mm, thickness<3mm	≥15
Breakdown voltage //	kV	≥50
Proof tracking index	PTI	≥200
SECTION IV-HAZARDOUS INGREDIENTS		
Hazardous components	No OSHA hazardous ingredients	
SECTION V - REACTIVITY DATA		
Chemical stability	Stable under normal conditions	
Conditions to avoid	Avoid heating longtime above 155°C	
Incompatible materials	Exposure to strong acids or bases will cause damage	
Hazardous polymerizations	Will not occur	
Storage and use effects	Conventional performance remains stable within 1 year.Long-term exposure to sunlight and high humidity will cause discoloration and performance degradation.	
SECTION VI- PRECAUTION		
Over exposure effects	Dust from machining products can irritate the eyes, nose, throat and lungs. Prolonged inhalation of dust can casue lung disease.	

Note: All information recommendations and suggestions appearing herein concerning this product are average values ascertained at room temperature by regular statistical analysis. it is provided purely for information and shall not be regarded as binding unless expressly agreed otherwise.

DIMENSIONAL TOLERANCE			
Thickness (mm)	Tolerance (mm)	Thickness (mm)	Tolerance (mm)
0.5-0.8	±0.05	6.0-8.0	±0.50
1.0-1.8	±0.15	10.0-15.0	±0.75
2.0-2.8	±0.20	16.0-20.0	±1.00
3.0-5.0	±0.30	21.0-50.0	±2.00

Tolerance in length & width is within 5 mm

