



# G10 Fiberglass Laminates

This product meets IEC standard and is used for applications requiring structural support and insulation properties.

## Standard

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

## Flame Resistance

HB

## Heat Resistance

Class B

## Regular Size

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

## Raw Material

Adhesive / Epoxy resin  
Reinforcing material / Electronic grade fiber glass cloth

## Certificate Available

UL ☐ RoHS ☒ REACH ☐ MSDS ☒ CEMT ☒  
Factory Inspection Report ☒

## Characteristics

- ✓ Good mechanical and electrical properties at both room temperature and elevated temperatures
- ✓ Epoxy (EP) resin matrix reinforced with an e-glass fine fabrics

## Industries

-  Generator and Motor
-  Dry Transformer
-  Electrical Industry
-  Electrical Insulating Component
-  Diagnosis Testing Industry
-  Battery Test
-  Solar Panel Industry

# Technical Data Sheet

Product name	NEMA GRADE G10 / EPGC 201	
SECTION I - MISC CHARACTERISTICS		
Density	g/cm³	1.95-2.10
Flammability	-	HB
Water absorption (5mm)	%	≤0.15
Chemical family	Resin	Epoxy
Reinforcement type	Glass fabrics	7628
Thermal characteristics	°C	130±5
Colour	Green (Natural), Yellow	
SECTION II- MECHANICAL CHARACTERISTICS		
Bending strength	MPa	≥400
Tensile strength	MPa	≥300
Compressive strength ⊥	MPa	≥350
Modulus of elasticity	MPa	≥24000
Impact strength //	kJ/m²	≥33
SECTION III- ELECTRICAL CHARACTERISTICS		
Electrical strength ⊥	kV/mm, thickness≤3mm	≥10.2
Breakdown voltage //	kV	≥35
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 longtime heating above 125°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 cause 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		Tolerance of length & width is less than 5 mm	
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