



EPGC308 Fiberglass Laminates

This product is made of chemically treated electrical alkali-free glass fiber cloth as the base material and high Tg epoxy resin as the adhesive by hot pressing.

Standard

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

Flame Resistance

HB

Heat Resistance

Class H

Regular Size

- 1020*2020mm

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
-  Electrical Industry
-  Electrical Insulating Component
-  Oil and Gas

Technical Data Sheet

Product name	EPGC308	
SECTION I - MISC CHARACTERISTICS		
Density	g/cm ³	1.90-2.00
Flammability	-	HB
Water absorption (5mm)	%	≤0.08
Chemical family	Resin	Epoxy
Reinforcement type	Glass fabrics	7628
Thermal characteristics	°C	180
Colour	Yellow	
SECTION II- MECHANICAL CHARACTERISTICS		
Bending strength	MPa	≥500
Tensile strength	MPa	≥375
Compressive strength ⊥	MPa	≥450
Impact strength //	kJ/m ²	≥50
SECTION III- ELECTRICAL CHARACTERISTICS		
Electrical strength ⊥	kV/mm, thickness≤3mm	≥15
Breakdown voltage //	kV	≥45
Insulation resistance after water immersion	MΩ	5.0x10 ⁴
Proof tracking index	PTI	≥400
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 180°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	±0.12	5.0	±0.52
1.0	±0.18	8.0	±0.72
2.0	±0.28	10.0	±0.82
3.0	±0.37	20.0	±1.30