

## G11 EPOXY PLASTIC SHEET

G11 Epoxy is a laminate according to the following international standards:

IEC 60893 EP GC 203, EP GC 308

DIN 7735 Hgw 2372.4

NEMA LI 1 G 11

**Composition**

G11 Epoxy is prepared from glass cloth impregnated with the well known G11 epoxy system. It gives good thermal endurance at elevated temperatures, a very good chemical resistance and a limiting temperature of more than 180°C.

PROPERTIES	TEST METHOD	UNIT	VALUE
Density	ISO 1183/A	g/cm <sup>3</sup>	approx. 2,0
Flexural strength	ISO 178	MPa	400 / 280 / 200
Flexural modulus of elasticity	ISO 178	MPa	approx. 1800
Impact strength (Charpy) parallel to laminations	ISO 179/3 C	kJ/m <sup>2</sup>	33
Tensile strength	ISO 527	MPa	240
Compressive strength perpendicular to laminations	ISO 604	MPa	500
Insulation resistance after immersion in water	IEC 167	Ohm	10 <sup>^12</sup>
Electrical strength at 90°C in oil perpendicular to laminations	IEC 243	KV/mm	13
Breakdown voltage at 90°C in oil parallel to laminations	IEC 243	Kv	40
Permittivity at 50 Hz and 1 MHz	IEC 250	-	5.5
Comparative tracking index	IEC 112	-	CTI 180
Thermal endurance	IEC 216	T.I.	180
Water absorption (thickness 10mm)	ISO 62/1	mg	20

**Technical Data Sheet**

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