

**G11**  
**H-CLASS**  
**TECHNICAL DATA SHEET**  
**Rev.03 - 14/06/2007**



**DESCRIPTION:**

Rigid board made of glass cloth soaked in a special epoxy resin.

G11 is characterized by optimal mechanical and electrical properties: such mechanical properties remain excellent even at high temperatures.

**APPLICATIONS:**

For dielectric applications with mechanical solicitations at high temperatures.

**TECHNICAL SPECIFICATIONS:**

	Unit	Value	Norm
Density	g/cm <sup>3</sup>	1.9	ISO1183
Standards	NEMA	HGW2372	DIN77375
Flexural strength $\perp$ lamination at t20 °C 1h at 150°C	MPa	450 350	ISO178
Compressive strength // $\perp$	MPa	260 – 550	ISO 604
Tensile strength // lamination	MPa	310	ISO527
Elastic modulus	MPa	24000	ISO178
Coeff. of linear expansion	10 <sup>-6</sup> K <sup>-1</sup>	15	VDE0304
Thermal conductivity	W/Mk	0.25	DIN52612
Max. operating temperature	°C	180	IEC60216
Insulating class		H	
Tracking resistance	V	500	DIN53480
Surface resistivity	$\Omega$	1.00E+12	IEC60167
Dielectric loss factor	tg $\delta$	0.019	IEC60250
Dielectric constant 1MHz $\epsilon$		4.9	IEC60250
Flat electrical resistance,90°C in oil	KV/mm	20	IEC60243
Discharge potential, 90°C in oil	KV	80	IEC60243