



MICAM's EG-10 Grade is a G-10 epoxide resin laminate, based on a medium weave glasscloth, with excellent machining and punching characteristics.

Characteristics	Excellent electrical and mechanical properties Low Halogen content
Colours	Translucent Green
Thickness	0.5mm to 100mm available on request
Sheet Size	1220mm x 920mm (panel sizes cut on request)

		units	test method
<b>GENERAL PROPERTIES</b>			
Relative Density	1.8	-	
Thermal Index (20,000 hrs)	(class B) 130	°C	BS2757
Water Absorption	10	mg / 50x50x3 mm	IEC 62-1
Coefficient of thermal expansion in Z axis, before Tg #2	40	ppm/°C	ASTM D696-98
Coefficient of thermal expansion in Z axis, after Tg #2	190	ppm/°C	ASTM D696-98
<b>MECHANICAL PROPERTIES</b>			
Flexural Strength	470	MPa	ISO 178
Flexural Modulus	20	GPa	ISO 178
Izod Impact Strength	65	kJ/m <sup>2</sup>	ISO 180/2A
Shear Strength	55	MPa	EN60893-2
Tensile Strength	350	MPa	ISO 527
Compressive Strength Flatwise	545	MPa	ISO 604
<b>ELECTRICAL PROPERTIES</b>			
Insulation Resistance	10 <sup>5</sup>	MΩ	IEC 167
Dielectric Strength Flatwise	14	MV/m (1.6mm)	IEC 243-1
Dielectric Strength Edgewise	60	kV (3mm)	IEC 243-1
Dissipation Factor at 1 MHz	0.023	-	IEC 250
Permittivity at 1 MHz	4.3	-	IEC 250

#1: 1 hr/150°C and tested at 150°C

#2: Tested after stoving – 160/4, 20/8

### SPECIFICATION COMPLIANCE

EN 60893-3-1: 1994/EP GC 201; DIN 7735:1975 Hgw 2372; ISO 1642: EP-GC-1; NEMA L1-1-1998 G-10; BS 3953: 1990 EP-3

### ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

### QUALITY SYSTEM APPROVAL

Certified by NSAI to I.S. EN ISO 9001:2008