

MICAM's CG-10 is an excellent mechanical and electrical epoxide copper clad laminate

Characteristics	Excellent electrical, mechanical properties, low halogen content
Colours	Natural, Green, Blue & Black
Thickness	0.1 mm to 0.8mm
Copper	18 $\mu$ m, 35 $\mu$ m or 70 $\mu$ m (other copper thickness available)
Sheet Size	2440mm x 1220mm, 1220mm x 920mm (panel sizes cut on request)

	units	test method
<b>GENERAL PROPERTIES</b>		
Relative Density	1.8 g/cm <sup>3</sup>	
Temperature Rating	130 (Class B) °C	
Water Absorption	0.6 % (<0.78mm)	IPC-TM-650 2.6.2.1
Glass Transition Temperature	115 °C	IPC-TM-650 2.4.25
<b>MECHANICAL PROPERTIES</b>		
Flexural Strength Lengthwise	470 MPa (1.6mm)	IPC-TM-650 2.4.4
Flexural Strength Crosswise	400 MPa (1.6mm)	IPC-TM-650 2.4.4
Thermal Stress – 10 secs @ 288°C unetched	Pass/Visual	IPC-TM-650 2.4.13.1
Thermal Stress – 10 secs @ 288°C etched	Pass/Visual	IPC-TM-650 2.4.13.1
Copper Peel Strength	1.9 N/mm (18 $\mu$ m)	IPC-TM-650 2.4.8
Solder dip at 260°C	> 30 s	
<b>ELECTRICAL PROPERTIES</b>		
Volume Resistivity C-96/35/90	10 <sup>8</sup> M $\Omega$ cm (0.5mm)	IPC-TM-650 2.5.17.1
Surface Resistivity C-96/35/90	10 <sup>6</sup> M $\Omega$ (0.5mm)	IPC-TM-650 2.5.17.1
Dielectric Breakdown	>50 kV (1.6mm)	IPC-TM-650 2.5.6
Loss Tangent at 1 MHz	0.028 -	IPC-TM-650 2.5.5.3
Permittivity at 1 MHz	4.8 -	IPC-TM-650 2.5.5.3

#### CONDITIONING

C-96/35/90 – 90% Relative Humidity @ 35°C for 90 hours

#### SPECIFICATION COMPLIANCE

IPC-4101/20; NEMA LI-1 G-10

#### ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant; Low Halogen content

#### QUALITY SYSTEM APPROVAL

Certified by NSAI to I.S. EN ISO 9001:2015 Reg. No. IE-19.0675.