

MICAM's EFR4 is an epoxy-woven glassfibre laminate, with excellent electrical, mechanical and flame resistant properties.

Characteristics	Excellent electrical and mechanical properties, flame retardant
Colours	Translucent green, black and other colours available on request
Thickness	0.1 mm to 100mm available on request
Sheet Size	1220 mm x 920mm, 1220mm x 1060mm (panel sizes cut on request)

	units	test method
<b>GENERAL PROPERTIES</b>		
Relative Density	1.95 -	IEC 1183-A
Temperature rating	130 °C	IEC 216
Water Absorption	10 mg/50x50x3 mm	IEC 62-1
Flammability	flame retardant -	-
<b>MECHANICAL PROPERTIES</b>		
Flexural Strength	470 MPa	ISO 178
Flexural Modulus	20,000 MPa	ISO 178
<b>ELECTRICAL PROPERTIES</b>		
Insulation Resistance	10 <sup>5</sup> MΩ	IEC 167
Dielectric Strength Flatwise (in oil at 90°C)	14 MV/m (1.6 mm)	IEC 243-1
Dielectric Strength Edgewise (in oil at 90°C)	60 kV (3 mm)	IEC 243-1
Dissipation Factor at 50 Hz	0.006 -	IEC 250
Dissipation Factor at 1 MHz	0.008 -	IEC 250
Permittivity at 50 Hz	4.5 -	IEC 250
Permittivity at 1 MHz	4.5 -	IEC 250

### SPECIFICATION COMPLIANCE

EN 60893-3-2/EPGC202; NEMA LI-1 FR4

### ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

### QUALITY SYSTEM APPROVAL

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