



MICAM's G43R is a UL recognised FR-4 epoxide resin laminate, based on a medium weave glasscloth, with excellent machining characteristics. Excellent electrical, mechanical and flame resistant properties.

Characteristics	Excellent electrical, mechanical and flame resistant properties
Colours	Translucent Green and Black
Thickness	0.2mm to 100mm available on request
Sheet Size	1220mm x 920mm, 1220 x 1060mm (panel sizes cut on request)

		units	test method
<b>GENERAL PROPERTIES</b>			
Relative Density	1.9	-	IEC 1183-A
Temperature rating	130	°C	IEC 216
Water Absorption	10	mg/50x50x3 mm	IEC 62-1
Flammability	V-0	-	UL-94
<b>MECHANICAL PROPERTIES</b>			
Flexural Strength	490	MPa	ISO 178
Flexural Modulus	21,000	MPa	ISO 178
Izod Impact Strength	65	kJ/m <sup>2</sup>	ISO 180/2A
Shear Strength	55	MPa	EN60893-2
Tensile Strength	370	MPa	ISO 527
Tensile Modulus (Young's Modulus)	18	GPa	ISO 527
Compressive Strength Flatwise	500	MPa	ISO 604
<b>ELECTRICAL PROPERTIES</b>			
Insulation Resistance	10 <sup>5</sup>	MΩ	IEC 167
Dielectric Strength Flatwise (in oil at 90°C)	14	MV/m (1.6mm)	IEC 243-1
Dielectric Strength Edgewise (in oil at 90°C)	60	kV (3mm)	IEC 243-1
Dissipation Factor at 50Hz	0.006	-	IEC 250
Permittivity at 50Hz	4.5	-	IEC 250
Dissipation Factor at 1 MHz	0.008	-	IEC 250
Permittivity at 1 MHz	4.5	-	IEC 250
Comparative Tracking Index Test	> 175	V	IEC 112/DIN 53480 Kc

## SPECIFICATION COMPLIANCE

BS 3953: 1990 EP-4; NEMA L1-1-1989 FR-4; EN 60893-3-1: 1994/EP GC 202; DIN 7735:1975 Hgw 2372.1

## ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

## QUALITY SYSTEM APPROVAL

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

## PRODUCT APPROVAL

Underwriters Laboratories file no. E53727

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