

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 50mm available on request
Sheet Size	1220mm x 920mm, 1220 x 1060mm (panel sizes cut on request)

	units	test method
GENERAL PROPERTIES		
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
MECHANICAL PROPERTIES		
Flexural Strength	490 MPa	ISO 178
Flexural Modulus	21,000 MPa	ISO 178
Izod Impact Strength	65 kJ/m ²	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
ELECTRICAL PROPERTIES		
Insulation Resistance	10 ⁵ 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 50 Hz	0.006 -	IEC 250
Permittivity at 50 Hz	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

NEMA LI-1 FR-4; EN 60893-3-2 EPGC202; BS 9353:1990 EP-4

ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

QUALITY SYSTEM APPROVAL

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

PRODUCT APPROVAL

Underwriters Laboratories file no. E53727

MICAM LIMITED · TEL + 353 22 21345 · EMAIL info@micam.com · WEB www.micam.com

