



MICAM's S5 Grade is a silicone resin laminate, based on a fine weave glasscloth, with excellent machining characteristics. Excellent electrical, very low loss angle and excellent thermal properties.

Characteristics	High Temperature (Class H) Excellent Loss Tangent and Permittivity Properties Flammability Rating UL 94 V-0 Excellent Electrical Properties Excellent Machining Characteristics
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Colours	Off-White
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Thickness	0.5mm to 50mm available on request
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Sheet Size	1220mm x 920mm (panel sizes cut on request)
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		units	test method
GENERAL PROPERTIES			
Relative Density	1.9	-	IEC 1183-A
Temperature Rating - Continuous	180+	°C	IEC 216
Temperature Rating - Intermittent	260	°C	
Water Absorption	5	mg/50x50x3mm	IEC 62-1
Flammability	V-0		UL-94
MECHANICAL PROPERTIES			
Cross Breaking Strength	132	MPa	ISO 178
Impact Strength	34	kJ/m ²	ISO 180/2A
Shear Strength	58	MPa	EN60893-2
Tensile Strength	105	MPa	ISO 527
Compressive Strength Flatwise	170	MPa	ISO 604
ELECTRICAL PROPERTIES			
Insulation Resistance	10 ⁷	MΩ	IEC 167
Dielectric Strength Flatwise	12	MV/m (1.6mm)	IEC 243-1
Dielectric Strength Edgewise	55	kV (3mm)	IEC 243-1
Dissipation Factor at 1 MHz	0.003	-	IEC 250
Permittivity at 1 MHz	3.7	-	IEC 250
Comparative Tracking Index Test	> 600	V	IEC 112/DIN 53480 Kc
	600	V	DIN/VDE 0110

SPECIFICATION COMPLIANCE

BS3953: 1990 SI-4; ISO 1642 SI-GC-1; EN 60893-3-1: 1994/SIGC 201

ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

QUALITY SYSTEM APPROVAL

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

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