



MICAM's S7 Grade is a silicone laminate, which is suitable for high frequency applications.

Characteristics	High Temperature (Class H) Excellent Loss Tangent and Permittivity Properties Flammability Rating UL 94 V-0 Excellent Electrical and Mechanical Properties
Colours	Off-White
Thickness	0.5mm to 50mm available on request
Sheet Size	2440mm x 1220mm, 1220mm x 920mm (panel sizes cut on request)

		units	test method
GENERAL PROPERTIES			
Relative Density	1.8	-	IEC 1183-A
Temperature Rating	180	°C	IEC 216
Water Absorption	10	mg/50x50x3 mm	IEC 62-1
Flammability	V-0	-	UL-94
MECHANICAL PROPERTIES			
Flexural Strength	140	MPa	ISO 178
Flexural Modulus	13,000	MPa	ISO 178
Izod Impact Strength	63	kJ/m ²	ISO 180/2A
Shear Strength	15	MPa	EN60893-2
Tensile Strength	160	MPa	ISO 527
Compressive Strength Flatwise	330	MPa	ISO 604
ELECTRICAL PROPERTIES			
Insulation Resistance	10 ⁷	MΩ	IEC 167
Dielectric Strength Flatwise (in oil at 90°C)	12	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 (1.6mm)	0.003	-	IEC 250
Dissipation Factor at 1 MHz (1.6mm)	0.003	-	IEC 250
Permittivity at 50Hz (1.6mm)	3.7	-	IEC 250
Permittivity at 1 MHz (1.6mm)	3.7	-	IEC 250
Comparative Tracking Index Test	>600	V	IEC 112/DIN 53480 Kc
	600	V	DIN/VDE 0110

SPECIFICATION COMPLIANCE

BS 3953: 1990 SI-5; DIN 7735:1975 Hgw 2572; ISO 1642 SIG C 2; EN 60893-3-1: 1994/SIG C 202; NEMAL1-1-1989 G-7

ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

QUALITY SYSTEM APPROVAL

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

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