

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 Flame Retardant Excellent Electrical and Mechanical Properties
Colours	Off-White
Thickness	0.5 mm to 50mm available on request
Sheet Size	2440mm x 1220 mm, 1220 mm x 920 mm (panel sizes cut on request)

		units	test method
<b>GENERAL PROPERTIES</b>			
Relative Density	1.8	-	IEC 1183-A
Temperature Rating	180	°C	IEC 216
Water Absorption	10	mg/50x50x3mm	IEC 62-1
Flammability	V-0		UL-94
	<i>Product will obtain a V0 result on the UL vertical flame test. However the product is not UL listed.</i>		
<b>MECHANICAL PROPERTIES</b>			
Flexural Strength	140	MPa	ISO 178
Flexural Modulus	13,000	MPa	ISO 178
Izod Impact Strength	63	kJ/m <sup>2</sup>	ISO 180/2A
Shear Strength	15	MPa	EN60893-2
Tensile Strength	160	MPa	ISO 527
Compressive Strength Flatwise	330	MPa	ISO 604
<b>ELECTRICAL PROPERTIES</b>			
Insulation Resistance	10 <sup>7</sup>	MΩ	IEC 167
Dielectric Strength Flatwise (in oil at 90°C)	12	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 50Hz (1.6 mm)	0.003	-	IEC 250
Dissipation Factor at 1 MHz (1.6 mm)	0.003	-	IEC 250
Permittivity at 50 Hz (1.6 mm)	3.7	-	IEC 250
Permittivity at 1 MHz (1.6 mm)	3.7	-	IEC 250
Comparative Tracking Index Test	> 600	V	IEC 112/DIN 53480 Kc
	600	V	DIN/VDE 0110

### SPECIFICATION COMPLIANCE

EN 60893-3-6 SIGC202; NEMA LI-1 G-7; BS 3953 SI-5

### ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

### QUALITY SYSTEM APPROVAL

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

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