

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

	units	test method
<b>GENERAL PROPERTIES</b>		
Relative Density	1.9 -	IEC 1183-A
Temperature Rating - Continuous	180+ °C	IEC216
Temperature Rating - Intermittent	260 °C	
Water Absorption	5 mg/50x50x3mm	IEC 62-1
Flammability	V-0 <i>Product will obtain a V0 result on the UL vertical flame test. However the product is not UL listed.</i>	UL-94
<b>MECHANICAL PROPERTIES</b>		
Cross Breaking Strength	132 MPa	ISO 178
Impact Strength	34 kJ/m <sup>2</sup>	ISO 180/2A
Shear Strength	58 MPa	EN60893-2
Tensile Strength	105 MPa	ISO 527
Compressive Strength Flatwise	170 MPa	ISO 604
<b>ELECTRICAL PROPERTIES</b>		
Insulation Resistance	10 <sup>7</sup> MΩ	IEC 167
Dielectric Strength Flatwise	12 MV/m (1.6 mm)	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 600 V	IEC 112/DIN 53480 Kc DIN/VDE 0110

### SPECIFICATION COMPLIANCE

EN 60893-3-6 SIGC 201; BS 3953 SI-4

### ENVIRONMENTAL COMPLIANCE

RoHS compliant; REACH compliant

### QUALITY SYSTEM APPROVAL

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

MICAM LIMITED · TEL + 353 22 21345 · EMAIL [info@micam.com](mailto:info@micam.com) · WEB [www.micam.com](http://www.micam.com)

