

**MICA SHEETS****GRADE:** LSAT**COLOUR:** NATURAL**DESCRIPTION:** LSAT consists of several layers of muscovite or phlogopite mica paper impregnated with silicon binder, having excellent mechanical, thermal & electrical properties.

<u>PROPERTIES</u>	<u>AVERAGE TEST RESULTS</u>	<u>UNIT</u>
<b><u>PHYSICAL</u></b>		
THICKNESS RANGE	> 0.75 - 100	mm
THICKNESS TOLERANCE	10% ON NOMINAL THICKNESS	mm
DENSITY	2.1 - 2.5	g/cm <sup>2</sup>
MICA CONTENT	90+-2	%
WATER ABSORPTION AFTER 24 HOUR IMMERSION	< 1.0	%
WEIGHT LOSS AT 823 K/4 HOURS	< 2.0	
<b><u>MECHANICAL</u></b>		
FLEXURAL STRENGTH	>130	N/mm <sup>2</sup>
TENSILE STRENGTH	>100	N/mm <sup>2</sup>
IMPACT STRENGTH	10.5	Kg-cm
COMPRESSIVE STRENGTH	>300	N/mm <sup>2</sup>
<b><u>THERMAL</u></b>		
CONTINUOUS OPERATING TEMPERATURE	MUSCOVITE: >500 PHLOGOPITE: >700	°C
// THERMAL EXPANSION	4.7 x 10 <sup>-5</sup> Min	cm/cm/K
THERMAL EXPANSION // TO SPECIFIC HEAT	> 850	J/kgK
THERMAL CONDUCTIVITY	0.16 min	w/m K
<b><u>ELECTRICAL</u></b>		
DIELECTRIC STRENGTH	> 20	kv/mm
ARC RESISTANCE	> 300	S
SURFACE RESISTANCE	>10 <sup>13</sup>	Ohm
VOLUME RESISTIVITY	>10 <sup>13</sup>	Ohm-cm
DIELECTRIC CONSTRAINT	3.8 min	
COMPARATIVE TRACKING INDEX	> 600	V

THIS DATA, WHILE BELIEVED TO BE ACCURATE AND BASED ON RELIABLE ANALYTICAL METHODS, IS FOR INFORMATIONAL PURPOSES ONLY. DATA SUPPLIED ABOVE ARE "TYPICAL VALUES", NOT TO BE CONSIDERED "SPECIFICATION VALUES"