Product: Silicon Mica Sheet

Technical Data LSAT

GRADE: LSAT

COLOUR: Sheets are supplied in natural colour

DESCRIPTION: LSAT consists of several layers of muscovite or phlogopite mica paper impregnated with a silicone binder having excellent mechanical, thermal and electrical properties.

Properties	Unit	Average Test Results	
Physical			
Thickness Range	mm	>0.75 - 100	
Thickness Tolerance	mm	10% on nominal thickness	
Density	g/cm ²	2.1 to 2.5	
Mica Content	%	90±2	
Water Absorption			
After 24 Hour Immersion	%	<1.0	
Weight Loss at 823 K/4 Hours	%	<2.0	
Mechanical			
Flexural Strength	N/mm ²	>130	
Tensile Strength	N/mm ²	>100	
Impact Strength	Kg-cm	10.5	
Compressive Strength	N/mm ²	>300	
Thermal		Musovite	Phlogopite
Continuous Operating Temperature	°C	> 500	>700
Thermal Expansion Parallel to:			
The Laminate	cm/cm/K	4.7 x 10 ⁻⁵ Min	
Specific Heat	J/kgK	> 850	
Thermal Conductivity	w/m K	0.16 min	
Electrical			
Dielectric Strength	kv/mm	> 20	
Arc Resistance	S	> 300	
Surface Resistivity	Ohm	> 10 ¹³	
Volume Resistivity	Ohm-cm	> 10 ¹³	
Dielectric Constraint		3.8 min	
Comparative Tracking Index	V	> 600	

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".