

## Datasheet

### Rigid Mica sheet

RS Stock number 785-0827



#### Description

Mica is a laminate designed for providing outstanding electrical insulation at high temperatures. It is environmentally safe and non-toxic, certified by UL-94V-0 (E67143M) and conforming to IEC 371-3-3

#### Applications

A special low smoke and blister free grade. It fully resists the extreme high temperature cycles and can be easily cut or punched.

#### Availability

Various sheet sizes, 0.1 – 1.5mm thick

#### Storage

Unlimited shelf life in a dry place at room temperature

## Characterisitcs

Type		Mica	
Mica content	%	ca.90	IEC 371-2
Bond content	%	ca.90	IEC371-2
Thickness	mm	0.1-1.5	IEC 371-2
Density		2.15 ± 0.15	IEC371-2
Heat Resistance			
Continuous service	°C	500	
Intermittent service	°C	800	
Edge Strength	Kg/0.1 mm	>1.3	in house
Tensile Strength	N.mm-2	150	ISO 527
Flexural Strength	N.mm-2	>180	ISO178
Water absorption	%	<1	IS 62
Dielectric Strength	KV/mm	>25	IEC243
Insulation Resistance 23°C	Ω.cm	>10 <sup>17</sup>	IEC 93
Insulation resistance 550°C	Ω.cm	>10 <sup>12</sup>	IEC 93
Heat Loss at 500°C	%	<1	IEC 371-2
Thermal Expansion			
Perpendicular to Layer	10 <sup>-6</sup> K-1	100	
l parallel to Layer	10 <sup>-6</sup> K-1	10	