

Rigid Insulation

Silicon Bonded Mica

GENERAL

Mica is a naturally occurring silicate mined chiefly in India, Madagascar and USA. Of the many mica types available only two, namely muscovite (light coloured) and phlogopite (dark coloured), are used within the Electrical Industry.

Mica exhibits excellent thermal stability, high shear and tensile strengths, relative inertness, resistance to high temperatures, is infusible and non flammable.

Laminates of mica are manufactured by bonding mica and silicone resin together at elevated temperature and pressures.

APPLICATIONS

Elements, Heat shield, Corona protection barriers, and fabricated parts used in induction furnaces plus resistor banks and arc shields.

PROPERTIES

Properties		Values
Density	grams / cm ³	2
Mica content	%	> 90
Flexural strength	kG / mm ²	25
Insulation resistance	MΩ	5 x 10 (R.T)
		5 x 10 (500°C)
Breakdown voltage	kV / mm	30
Arc resistance	seconds	> 400
Heat resistance	Continuous	500°C
	Intermittent	800°C
Physical		
Colour:		Silver grey
Standard thicknesses:	mm	0.1 to 30
Sheet size:	mm	1200 x 1000
Silicon Mica tubes are available in a range of sizes. Refer your local OBA sales office.		