

# 20-95-01 SILICONE BONDED MICA PAPER PREPREG

## Composition

Mica paper impregnated with silicone resin binder (product code 20-95-01) is partially cured, which softens under heat and facilitates good moulding.

## Application

For hot moulding of intricate parts such as mica tubes, mica rings, etc.

## Processing

It consists of the required number of layers of prepregs (cut to required size). It is heated uniformly to a temperature of  $100 \pm 10^{\circ}\text{C}$  till it becomes soft. It takes the required form when rolled over a mandrel and cured in oven at  $200^{\circ}\text{C}$ . It retains its form when cooled to room temp. The duration will have to be determined by wall thickness of tube.

## Typical curing schedule for hot moulded parts.

Temperature :  $200^{\circ}\text{C} \pm 10^{\circ}\text{C}$

Duration : 2 to 8 hrs.

Exact curing schedules are to be arrived at by the users, depending on the desired final properties of the moulded parts.

## Product Data

Properties	Unit	Value
Thermal Classification		1000 °C
Weight	g/m <sup>2</sup>	140 +/- 10
Weight loss @ 560°C for 2 hrs	%	Max 4
Volatile Content	%	0.5 to 2
Break down voltage	kV	Min 1.5
Prepreg width	mm	1000 +/-10
Mouldability	--	When 2 inch wide strip is heated at (130 +/-5°C)& moulded over a mandrel of specified diameter, no deflaking, chipping, cracking to be observed.

## Shelf Life

Three months at  $20 \pm 5^{\circ}\text{C}$  from the date of manufacturing.