



HEATER MICA PAPER PLATES

MMC – 1001M

They are produced from uncalcined MUSCOVITE MICA bonded with cured high temperature silicone binder under high heat and pressure conforming to IEC 371-3-3. They are HARD and RIGID and could readily be punched or stamped to any shape, size and design providing an excellent overall properties.

SPECIAL FEATURES :

- ★ 100% asbestos-free material
- ★ Withstand temperatures upto 550°C.
- ★ Outstanding electrical properties
- ★ High dielectric strength
- ★ Excellent thermal stability
- ★ Very high corona resistance
- ★ Good radiation resistance
- ★ Unique fluctural strength
- ★ Low electrical loss
- ★ Little smoke or odor at red heat
- ★ Excellent mechanical strength
- ★ Superior edge resistance
- ★ Low moisture absorption
- ★ High compression resistance
- ★ Low thermal conductivity
- ★ Volume resistivity
- ★ High emmissivity
- ★ Low outgassing
- ★ High durability
- ★ Cost effective

APPLICATIONS :

Suitable for use as a supporting insulation for resistance wire heating elements, such as, TOASTERS, HAIRDRYERS, BAND HEATERS, STRIP HEATERS, etc and electrical and thermal insulation, namely, ARC FURNACE, GASKETS, SPACERS, SWITCHGEARS, THERMOSTATS, FIREBARRIERS, WASHERS and PUNCHED PARTS, etc. where high resistance to moisture, mechanical and electrical properties and high temperature stabilities are required. They are also ideal for NUCLEAR and AEROSPACE applications.

GENERAL CHARACTERISTICS :

Mica	:	+90%
Bond Content	:	<10% silicone resin
Density	:	2.0 - 2.1 Gms/cm ³
Dielectric Strength	:	>20 kv/mm or 500 volts/mil
Dielectric Constan	:	4.5
Flexural Strength	:	>200 n/mm ²
Tensile Strength	:	>100 n/mm ²
Weight Loss @ 550°C	:	<1%
Thermal Conductivity	:	0.3 W/m/°c
Volume Resisiivity	:	>10 ¹⁴ ohm/cm
Surface Resistivity	:	>10 ¹¹ ohm/cm
Water Absorption	:	<1% (24 hrs in water)
Flame Resistance	:	ul flame-retardent rating 94 v-o

AVAILABILITY :

Plate Size	:	1000 x 1200 mm (39.4" X 47.211") and 1000 x 600 mm (39.4" X 23.6055")
Thickness Range	:	0.1 To 1.5 Mm (.004" To .060") And 2.0 To 25 mm (.079- To 1.0")

Note : The datas given above are subject to variations and no warranty is applied.