HATIMDIELECTRICS

Insulation class
F 155° C

Moulding Mica

Moulding Micanite sheets are made using carefully selected mica flakes without any extra reinforcing materials. By hand these mica flakes are laid in layers bonded with shellac or epoxy and cured to a B stage. The semi cured resins within allow these sheets to be flexible for easy cutting, bending and thermoforming into custom dyes.

Application

Moulding micanite sheets used with several steps of precise craftsmanship contribute to create intricately shaped components with exceptional electrical insulating properties.

The selected micanite sheets are cut into the desired shapes and dimensions using specialized cutting tools or dies.

The cut micanite pieces are carefully arranged and placed into moulds or dies designed to shape them into the required components.

Heat and pressure are applied during the curing process to bond the micanite sheets together permanently. This creates a single, solid, and highly insulating component.

They soften on application of heat and the pliable stack of sheets can be then formed on moulds under heat and pressure to make intricate shapes such as V cones, shells, end bell insulation, core insulation, tubes and washers.

On cooling the formed and pressed component hardens thus retaining the shape of mould.

Availability

Moulding Mica sheets are available in standard size of 500 x 100mm and in thickness ranging from 0.10 mm to 1.5mm and are supplied with Polythene separators to avoid layers to sheets sticking to each other. Sheets in insulation class B are also available on special request.

Deviations in specifications, construction, sizes or packing can be made upon customers' request.

Shelf Life

Moulding Micanite sheets exhibit a shelf life of 6 months from date of manufacture when stored at a temperature 20°C and 50% relative humidity.

Item	Unit			
Mica Content	%	90	90	90
Binder		Shellac	Epoxy	Alkyd Vinyl
Dielectric Strength	kV / mm	7	5	5.5
Density	g/cc	1.2	1.2	1.2
Softening temperature	°C	120	120	140

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