

Moulding Mica Sheet

Moulding Micanite Sheet is a Class B, hot forming moulding plate, made from mica splittings and a partially cured shellac binder. The binder content is between 12% - 15% and softens under heat to facilitate good moulding. It is commonly used for hot moulding intricate parts such as mica commutator cones, V-rings for traction motors, end bell insulation, slot cells, coil forms and tubes.

The layout consisting of the required number of layers of thin moulding micanite plates is set in a pre-determined pattern. It is then heated uniformly to a temperature of 130°C - 160°C until it becomes soft, then takes the required form when moulded under pressure. The mica retains its moulded form when cooled under pressure. The duration, temperature and pressure is determined by the user depending on the final properties required for the application. The moulded parts can be fully cured under heat and pressure for several more hours to develop their full properties if required. No flaking was observed when the material was heated to 135°C - 150°C and moulded over a 25mm diameter mandrel.

Technical Data:

Property:	Value:
Thermal Classification	130°C Class B
Construction	Mica Splittings / Shellac Binder
Binder Content	12 - 15%
Dielectric Strength	> 16 kV/mm

Typical Curing Schedule for Hot Moulded Parts:

Temperature	160°C - 180°C
Pressure	14 - 38 kg/cm ²
Duration	2 - 4 hours

Applications:

- End bell insulation
- V-rings for traction motors
- Slot cells, coil forms and tubes
- Commutator cones



Availability:

Moulding Mica Sheet is available in thicknesses ranging from 0.25mm through to 1.5mm and a sheet size of 1050mm x 780mm.

Associated Gaskets also stock a large range of specialised electrical products such as varnish, tapes, and consumables, as well as rigid and flexible insulation materials. For more information on these products and many more, please visit our website or call your nearest AG branch.

Visit: www.agaus.com.au

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Important

This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.