

# mica tapes

## Samicafilm® 315.14

- ▶ Direct application to copper wire
- ▶ Improvement of coils to corona discharge
- ▶ 75 gr Samica®
- ▶ Polyester film on one side
- ▶ Tape without adhesive

		Value	Test norm
Total weight	g/m <sup>2</sup>	131 ± 10	IEC 60371-2
Polyester film	g/m <sup>2</sup>	42 ± 2	IEC 60371-2
Mica paper	g/m <sup>2</sup>	75 ± 4	IEC 60371-2
Resin content	g/m <sup>2</sup>	14 ± 4	IEC 60371-2
Thickness	mm	0.09 ± .02	IEC 60371-2
Stiffness	N/m	≤30	IEC 60371-2
Tensile strength	N/cm	≥30	IEC 60371-2
Min. shelf life at 5°C / years	Month	24	
Min. shelf life at 20 ± 5°C	Month	12	

### General description

Samicafilm® 315.14 is a Class F Samica® tape impregnated with a modified epoxy "B" stage binder and reinforced with one polyester film.

### Application

Samicafilm® 315.14 was designed for use as conductor insulation for stator coils of high voltage rotating machines. Samicafilm® grades may be used in resin rich, vacuum pressure impregnation, or soft cell coil technology.

### Main characteristics

Samicafilm® 315.14 is dry and very flexible and may be applied at high speed by modern taping machines to bare or enamelled copper conductor.

### Processing

As a guide typical insulation levels are:

For coils <5 kV, 2 butt layers or 1 half lap layer.

>5 kV to 10 kV, 3 butt layers or 2 half lap layers

>10 kV, 4 butt layers or 2 half lap layers.

Samicafilm® 315.14 has no additional adhesive on the film surfaces and the conductor stack consolidation should be made in any one of the following ways:

- Apply a layer of Thermopreg® 251.78 "B" stage tape over the slot section of the coil and consolidate in a hot press at 160°C, for 20-30 minutes.
- Brush in VRI stack bonding varnish 4302 and after allowing approx. 5 minutes for evaporation of solvent consolidate in a hot press at 160°C for 20-30 minutes.
- For two layer coils an internal stiff "B" stage separator of Glasoflex® may be used. Press and cure as before.

In all cases the coil must be entered into a release film liner to prevent any resin flow bonding to the press plates.

### Packaging

Samicafilm® grades can be supplied as pads or cross wound spools as from 10mm wide. The lengths and dimensions can vary at customer's request. Standard core 76mm diameter.

For pads the most used lengths range from 500 to 1 000m. We propose a range of cores according to the separate data sheet.

### Health and safety

The usual precautions when handling "B" stage epoxy resin products must be taken. The use of barrier creams and thorough hand washing is recommended.

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