

## **B-STAGED RESIN RICH GLASS CLOTH BACKED TAPE**

### **Epoxy- mica paper-glass cloth-combination thermosetting**

#### **Composition**

Calmicaglass N(I)<sup>TM</sup> consists of mica paper based on uncalcined muscovite, glass cloth and thermosetting epoxy novolak.

Calmicaglass N(I)<sup>TM</sup> is supplied interleaved to prevent a sticking together of the layers.

#### **Properties**

Calmicaglass N(I)<sup>TM</sup> is a very flexible glass mica paper combination, which can be taped easily on tight bends.

Calmicaglass N(I)<sup>TM</sup> when pressed gives a good resin flow that ensures the insulation of complex shapes. Excellent dielectric, thermal, mechanical and chemical properties are obtained after pressing.

#### **Application**

Calmicaglass N(I)<sup>TM</sup> is used e.g. for the insulation of coils and bars of low and high voltage machines.

Moreover, C Calmicaglass N(I)<sup>TM</sup> can be used for the fabrication of moulded parts such as commutator caps or for the fabrication of wound tubes and cylinders.

#### **Shelf life**

Min. 6 months at 20°C

Max. 12 months at 5°C

#### **Availability**

Rolls : max. width 1000 mm

Tapes: from 10 mm width upwards

**Calmicaglass N(I)<sup>TM</sup> is supplied interleaved.**

# Technical Information

Resin Rich Technology

## Calmicaglass N(I)<sup>TM</sup>

### Technical Data

#### Properties

Properties	Unit	Value	Value
Nominal Thickness	Mm	0.18 (42-97-GM)	0.20 (42-97-GM)
Tolerance	Mm	± 0.02 on Avg. ± 0.03 on individual	± 0.02 on Avg. ± 0.03 on individual
Total substance Glass cloth	g/m2	261 ± 26	309 ± 29
Mica paper	g/m2	35 ± 3	35 ± 3
Resin content	g/m2	120 ± 10	150 ± 10
Tensile Strength Volatile content	g/m2	106 ± 13	124 ± 16
(15 min. 150 ° C)	N/10mm	≥ 150	≥ 150
	%	≤ 0.8	≤ 0.8

Properties after ressing (165°C/1 hr), followed by post curing at 140°C/14 hrs.	Unit	Value	Value
		0.18 (42-97-GM)	0.20 (42-97-GM)
Dielectric strength at ambient temp.	KV/mm	40 min.	40 min.
Dielectric loss factor ambient/ 130 °C / 150 ° C		0.01 / 0.05 0.10 max.	0.01 / 0.05 0.10 max.