

TECHNICAL DATA

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AKASIC® 4b

B-Stage Semi-Conductive Tape

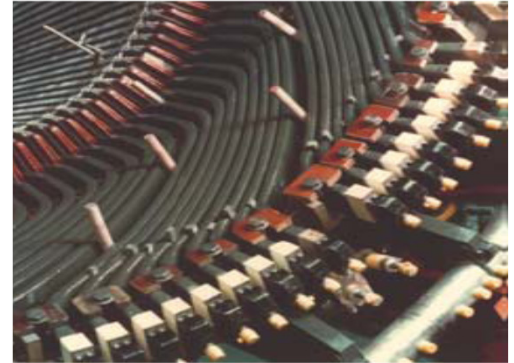
DESCRIPTION

Akasic® 4b is a semi-conductive tape consisting of a hybrid fabric of shrinkable polyester fibre (warp) and glass fibre (weft), impregnated with a SiC filled B-stage epoxy resin system.

CHARACTERISTICS

- Shrinks longitudinally when subjected to heat, forming a compact, void-free structure
- Resin rich, rapid curing resin system

The above characteristics are particularly important with regard to the partial discharge properties and electrical endurance of the high voltage insulation. Traces of resin may be visible at cut edges of tapes indicating the high tack of the tape in it's delivered state - This does not interfere with the use and processing of the tape.



APPLICATIONS

Akasic® 4b is intended for use as a stress control medium in the end-wings of medium and high voltage machines of 6kV and above.

Akasic® 4b is recommended for resin rich insulation systems, but depending on the insulation technology, it can also be employed on VPI systems.

TYPICAL PROPERTIES

Property	Test Method	Units	Akasic® 4b
Thickness	IEC 60626-2	mm	0.20 ± 0.02
Total area weight	IEC 60626-2	g/m ²	350 ± 42
Non-woven area weight	IEC 60626-2	g/m ²	45
Tensile strength - MD	DIN 53112	N/50mm	≥ 250
Elongation - MD	EN 29073-2	%	≥ 20
Shelf life @ 20°C		Month	3
Shelf life @ 5°C		Month	6
Thermal class	IEC 60085	°C	155 (Class F)
Storage			Dry area in original packaging

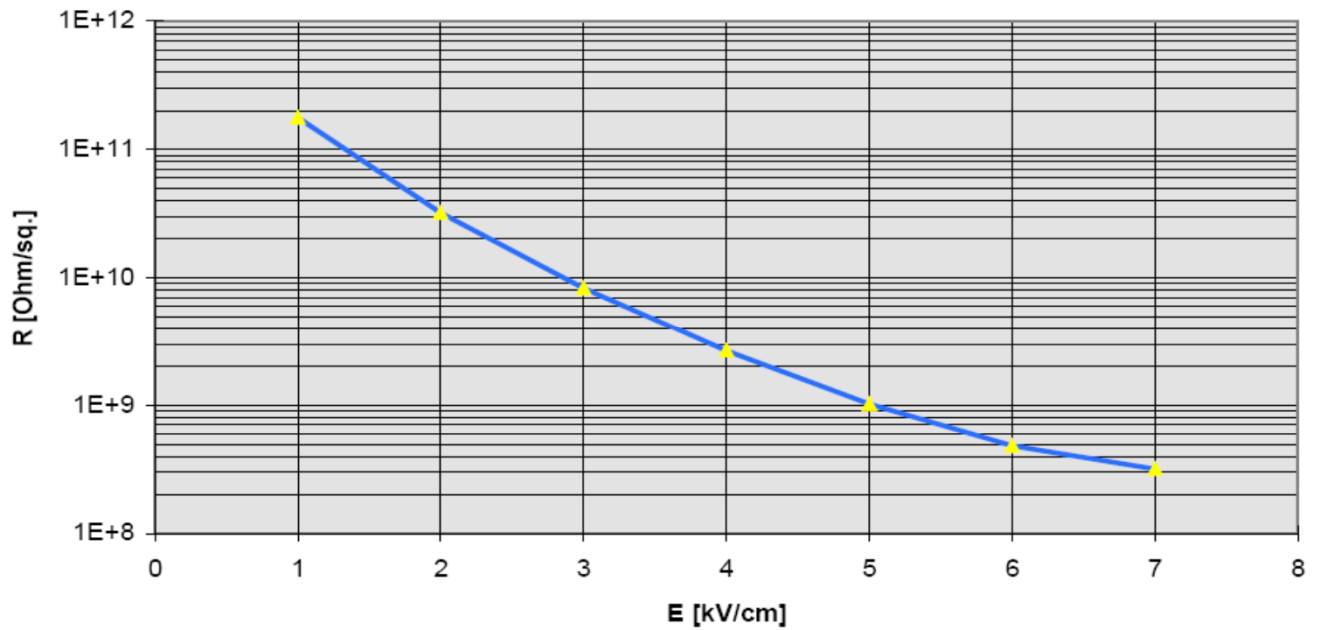
SUPPLY PARAMETERS

Standard widths	Narrow tapes, 10mm+
Standard roll length	50 metres, others on request
Standard core	70mm cardboard, others on request

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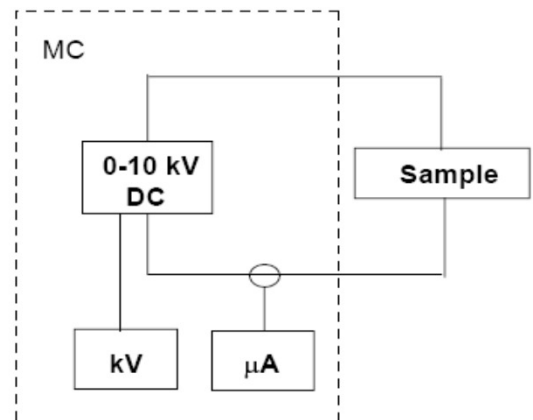
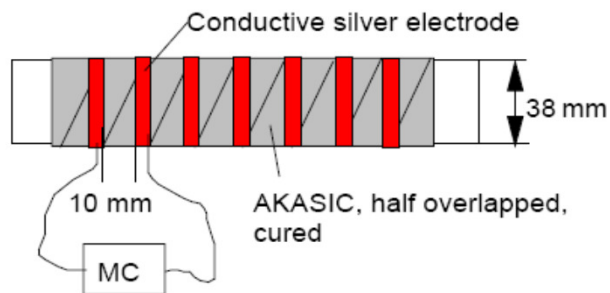
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TYPICAL VALUES: CURING 1H/150°C OR 2H/120°C



MEASURING METHOD

Tape half overlapped on WACOSIT tube
 (WACOSIT - Glass/Epoxy pultruded material)



Standard measuring procedure: voltage rise from 1 kV .. [1 kV] .. 8 kV
 Current measurement for each voltage step after 1 min