

CONDUCTOFOL® 2009

Description

CONDUCTOFOL® 2009 consists of mica paper based on calcined muscovite, impregnated with resin and a PET-film as carrier. The combination of mica paper and polyester film provides a high breakdown voltage and good elasticity. With the high mica content a good partial discharge, electrical creepage and radiation resistance can be achieved. CONDUCTOFOL® 2009 remains flexible after thermal treatment. This permits coils to be formed and shaped without risking damage to the conductor insulation, even after pre-consolidation of the straight part and after pressing the main insulation.

Application

CONDUCTOFOL® 2009 is used for insulation of rectangular copper conductors of low and high voltage coils.

Format

Rolls:	maximum width 1000 mm
Tapes:	from 6 mm width upward
Standard widths:	9, 12, 15, 20 mm

Storability

Minimum 24 months at 20 °C
Minimum 48 months at 5 °C

Processing Advice

Due to the high tensile strength and good elongation CONDUCTOFOL® 2009 permits high speed taping of rectangular copper by conventional taping machines. The tape needs no heating or special bonding to the copper. Only the ends have to be fixed by an adhesive tape.

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

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TECHNICAL DATA

Properties	Test method	Unit	Value	Value	Value
Nominal thickness	IEC 60371-2	mm	0.06 ± 0.01	0.07 ± 0.01	0.09 ± 0.01
Thickness after pressing	IEC 60371-2	mm	0.050 ± 0.005	0.055 ± 0.010	0.060 ± 0.015
Total substance	IEC 60371-2	g/m ²	92 ± 10	102 ± 11	129 ± 10
Mica paper	IEC 60371-2	g/m ²	50 ± 5	50 ± 5	75 ± 8
PET-film	IEC 60371-2	g/m ² μm	32 ± 3 23	42 ± 4 30	42 ± 4 30
Resin content	IEC 60371-2	g/m ²	10 ± 2	10 ± 2	12 ± 3
Breakdown voltage	IEC 60243-1	kV	≥ 5	≥ 6	≥ 7
Tensile strength	IEC 60371-2	N/cm	≥ 20	≥ 20	≥ 20
Stiffness at 25 °C	IEC 60371-2	N/m	≤ 25	≤ 25	≤ 30
Thermal class	IEC 60216-2		155 (F)	155 (F)	155 (F)

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