

CALMICA-FLEX® 0917, 0919

Description:

CALMICA-FLEX® 0917 is a multilayer insulation material consisting of glass cloth as a carrier and mica paper impregnated with epoxy resin.

CALMICA-FLEX® 0919 is both side covered with a PET-film.

Properties:

CALMICA-FLEX® tapes are highly flexible, thermosetting mica paper tapes which have excellent dielectric properties. After curing the consolidated insulation still shows some flexibility.

Application:

CALMICA-FLEX® tapes can be used e. g. for the insulation of the overhang part of coils for high and low voltage machines, as well as for the insulation of copper conductors and connections. Which type (0917, 0919) is preferable depends on required electrical properties.

Materials:

CALMICA-FLEX® 0917 is a multilayer insulation material consisting of glass cloth as a carrier and mica paper impregnated with a modified thermosetting epoxy resin.

CALMICA-FLEX® 0919 is both side covered with a PET-film.

Formats:

Rolls: max. width 1000 mm
Tapes: from 10 mm width upwards
Standard widths: 15, 20 and 25 mm

Storability:

min. 6 months at 20° C
min. 12 months at 5° C

Curing conditions:

3 hours at 160° C
or 6 hours at 140° C.

Technical Data

Type			CALMICA-FLEX® 0917		CALMICA-FLEX® 0919	
Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness		mm	0.08	0.11	0.13	0.16
Tolerance	IEC 371-2	mm	± 0.01	± 0.015	± 0.01	± 0.015
Total substance	IEC 371-2	g/m ²	102 ± 9	138 ± 9	179 ± 13	234 ± 16
Glass cloth	IEC 371-2	g/m ²	24 ± 1	33 ± 3	33 ± 3	33 ± 3
Mica paper	IEC 371-2	g/m ²	50 ± 5	75 ± 8	75 ± 8	120 ± 8
PET-film	IEC 371-2	g/m ²			2 x 8 ± 1	2 x 8 ± 1
Resin content	IEC 371-2	g/m ²	28 ± 3	30 ± 3	55 ± 5	65 ± 6
Tensile strength	IEC 371-2	N/10mm	≥ 70	≥ 150	≥ 150	≥ 150
Breakdown voltage	IEC 371-2	kV	≥ 1.5	≥ 2.0	≥ 3.0	≥ 4.0