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Electrical Insulation Materials

Flexiso® FI 17022

Description:

Flexiso® FI 17022 consists of mica paper based on calcined muscovite impregnated with resin and both sides are covered with a PET-film whereas one side is additionally coated with a special adhesive.

The adhesive on the thicker PET-film melts at temperatures above 100°C and conductors insulated with Flexiso® FI 17022 can be glued together in a hot press.

Application:

Flexiso® FI 17022 is used e.g. for insulation of rectangular copper conductors of low and high voltage coils.

Formats:

Flexiso® FI 17022 is available on rolls of a maximum width of 1000 mm and as tapes with a width from 6 mm. The standard width are 9, 12, 15 and 20 mm.

Processing Advice:

Pressing conditions for preconsolidation:

Best bonding will be achieved at 160°C. In addition the adhesive on the PET-film improves bonding of the main insulation (VPI or RR-system) to the conductor bundle. The conductor bundle covered with a release film is put into a hot press at 120 – 160°C and pressed for 1-5 minutes. Before opening the press it is recommended to cool down below 120°C.

Storability:

Minimum 24 months at 20°C

Maximum 48 months at 5 °C

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Additional Information: The thicker PET-film is coated with an adhesive.

Properties	Test method	Unit	Value	Value
Nominal thickness	IEC 60371-2	mm	0.09 ±0.01	0.10 ±0.01
Thickness after pressing	IEC 60371-2	mm	0.06 ±0.015	0.07 ±0.015
Total substance	IEC 60371-2	g/m²	133 ±10	143 ±10
Mica paper	IEC 60371-2	g/m²	75 ±8	75 ±8
PET-film	IEC 60371-2	g/m² µm	8 ±2 6	8 ±2 6
PET-film (coated with melting adhesive)	IEC 60371-2	g/m² µm	32 ±3 23	42 ±4
Resin content	IEC 60371-2	g/m²	18 +/-2	18 ±2
Breakdown voltage	IEC 60243-1	kV	≥ 6	≥ 7
Tensile strength	IEC 60371-2	N/cm	≥ 30	≥ 45

Trademark Information: Flexiso® is a registered trademark of Dr. Dietrich Müller GmbH, Germany.

Please note: The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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