SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

SynKraft® VSP H3

SynKraft® VSP H3 is a tear-proof, flexible 3-ply insulation consisting of a polyester film with special presspaper attached to both sides.

Attributes

The presspaper displays good absorption of impregnants, resulting in exceptional bonding between all winding components after impregnating. The polyester film improves the electrical and mechanical properties of the presspaper layer in the composite material, especially the resistance to tears. On the other hand, the polyester film is protected against damages during processing by the presspaper layers.

Application

SynKraft® VSP H3 is used as an extremely costeffective slot insulation and slot closure in stators and rotors, especially for small motors, and is often applied as interlayer insulation and final insulation in small transformers.

Standards

- Class B (130 °C) insulating material
- Insulation according to IEC 60626-2
- Test method acc. IEC 60641-2
- Sample conditioning acc. to standard atmosphere 23/50

Delivery forms

Total thickness in µm:

70, 110, 120, 150, 200, 250, 300

other thicknesses on request

SynKraft® VSP H3 can be supplied as:

- - in slit rolls from widths of 6 mm and above
- - in rolls approx. 630 mm or 1.260 mm
- - in sheets approx. 630 mm x 800 mm or approx. 800 mm x 1.260 mm

Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- from widths of 10 to 240 mm and thickness of 0.20 mm

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Base

PET-film + both sided high-grade presspaper (thicknesses ≥ 100 µm)

PET-film + both sided capacitor paper (thickness 70 µm)

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Mechanical	Unit of measure						
Total thickness	mm	0.07	0.11	0.12	0.15	0.17	0.20
Nominal thickness of film	µm	23	23	36	36	75	36
Specific weight	g/m²	73	100	120	190	175	240
Elongation at break longitudinal	%	3	2	2	2.5	3	2.5
Elongation at break transversal	%	10	8	10	10	10	10
Tensile strength longitudinal	N/mm²	100	90	100	120	100	120
Tensile strength transversal	N/mm²	70	50	60	80	70	70

Mechanical	Unit of measure			
Total thickness	mm	0.25	0.30	0.48
Nominal thickness of film	µm	36	36	75
Specific weight	g/m²	320	380	580
Elongation at break longitudinal	%	2.5	2.5	3

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Mechanical	Unit of measure			
Elongation at break transversal	%	10	10	10
Tensile strength longitudinal	N/mm²	100	100	120
Tensile strength transversal	N/mm²	60	70	70

Electrical	Unit of measure						
Total thickness	mm	0.07	0.11	0.12	0.15	0.17	0.20
Nominal thickness of film	µm	23	23	36	36	75	36
Dielectic strength	kV	7	7	9	10	12	10

Electrical	Unit of measure			
Total thickness	mm	0.25	0.30	0.48
Nominal thickness of film	µm	36	36	75
Dielectic strength	kV	10	10	12

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