SynFlex Elektro GmbH
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SynTherm® APA/80

SynTherm® APA/80 is a flexible 3-ply insulating material made of polyester film with a layer of aramid paper marked with green stripes on both sides.

Attributes

The proven dielectric properties of the polyester film and the excellent mechanical and thermal properties of the outer aramid paper layers result in a high performance insulating material. The ability of the outer layers to absorb impregnants results in exceptional bonding between all winding components.

Application

SynTherm® APA/80 is a cost-effective insulating material which can be installed in suitable insulating systems of class H (180 °C) and is used in electric motors as slot insulation, phase insulation and wedges.
SynTherm® APA/80 is used as core, interlayer and final insulation for transformers.

Standards

- Suitable for class H (180 °C) systems
- UL approved e.g. E247773

Delivery forms

Total thicknesses in µm:

220, 300, 360, 480

SynTherm® APA/80 is available:

- in tapes: depending on material thickness on request beginning at 6 mm (thin material)
- in rolls: 968 mm

Feathering:

- Depth approx. 1-12 mm; distance approx. 1-10 mm
- Form widths of 10 mm to 240 mm, thickness on request

Base

PET-film + aramid paper on both sides

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.
Updated 07/21

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Typical mechanical properties	Unit of measure				
Nominal thickness	mm	0.22	0.30	0.36	0.48
Typical thickness	mm	0.22±15 %	0.29±15 %	0.36±15 %	0.47±10 %
Specific weight	g/m²	205	315	405	560
Film thickness	µm	50	125	190	300
Aramid paper thickness	µm	80	80	80	80
Tensile strength longitudinal	N/cm	200	270	360	450
Tensile strength transversal	N/cm	130	240	300	350

Typical electrical properties	Unit of measure				
Nominal thickness	mm	0.22	0.30	0.36	0.48
Dielectric strength	kV	9	16	22	> 25

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