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## SynTherm® AP/80

SynTherm® AP/80 is a flexible 2-layer insulation made of polyester film with calandered aramid paper overlay.

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### 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.

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### Application

SynTherm® AP/80 is a cost-effective insulating material used in electric motors as slot insulation, phase insulation and wedges.

SynTherm® AP/80 is used as core, interlayer und final insulation for transformers.

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### Standards

- Suitable for class F (155 °C) systems.
- UL approved e.g. E247773

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### Delivery forms

Total thickness in µm: 270

Other thicknesses on request

### SynTherm® AP/80 is available:

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

### Feathering:

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

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### Base

PET-film + aramid paper

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Updated 03/19



Typical mechanical properties	Unit of measure	Values
Nominal thickness	mm	0.27
Typical thickness	mm	0.27±15 %
Film thickness	µm	190
Aramid paper thickness	µm	80
Specific weight	g/m²	335
Tensile strength longitudinal	N/cm	280
Tensile strength transversal	N/cm	330

Typical electrical properties	Unit of measure	Values
Nominal thickness	mm	0.27
Dielectric strength	kV	24

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