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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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