

---

## SynTherm® AP/80

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

---

### 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® 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.

---

### Standards

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

---

### 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

---

### Base

PET-film + aramid paper

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/m <sup>2</sup>	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

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 03/19

SynTherm® is a registered trademark of SynFlex.

