
SynTherm® NP/80

SynTherm® NP/80 is a flexible 2-layer insulation made of polyester film with calandered Nomex® overlay.

Attributes

SynTherm® NP/80 is a high-class insulation material due to the proven electrical properties of the polyester film and the excellent mechanical and thermal properties of the outer Nomex® overlays. The outer overlays' impregnant absorptivity allows excellent bonding of all winding components.

Application

SynTherm® NP/80 is an economic option and suitable for use as slot insulation, wedges, and phase insulation in electric motors.

In transformers it can be used as core, layer, or cover insulation.

Standards

- Class F (155 °C) acc. to IEC 60085
- Insulation material acc. IEC 60626
- Test standard IEC 60626-2
- Sample conditioning acc. to standard atmosphere 23/50

Delivery forms

Total thickness µm:

220, 270, 350

other thickness on request

SynTherm® NP/80 available in delivery formats:

- tapes starting from 4 mm width
- rolls with approx. 900 mm width
- on request: approx. 600 x 900 mm, 900 x 1000 mm

Outer diameters of tapes/ rolls optionally approx.

240/ 330 oder 450 mm.

Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- as of 10 mm up to 240 mm width and 0.20 mm thickness

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 07/22

SynTherm® is a registered trademark of SynFlex.
Nomex® is a registered trademark of E.I. Du Pont de Nemours and Company.



Base

Polyester film + Nomex®

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 07/22

SynTherm® is a registered trademark of SynFlex.
Nomex® is a registered trademark of E.I. Du Pont de Nemours and Company.



Mechanical	Unit of measure			
Total thickness	mm	0.22	0.27	0.35
Thickness tolerance max.	%	± 15	± 15	± 10
Film thickness	µm	125	190	250
Nomex® paper thickness	µm	80	80	80
Specific weight	g/m ²	255	340	420
Elongation at break longitudinal*	%	15	20	20
Elongation at break transversal*	%	20	25	25
Tensile strength transversal	N/10 mm	120	200	300
Tensile strength longitudinal	N/10 mm	180	230	280

Electrical	Unit of measure			
Total thickness	mm	0.22	0.27	0.35
Dielectric strength	kV	13	16	18

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 07/22

SynTherm® is a registered trademark of SynFlex.
Nomex® is a registered trademark of E.I. Du Pont de Nemours and Company.

