

Nomex®



metastar® 民士达

Make your choice!

Smart alternatives provided by SynFlex Films - Insulating Papers - Laminates



SynFlex offers branded products

We have been selling and processing insulating materials for many years and know what is important. In addition to the well-known brands Kapton®, Nomex® und Mylar®, we offer you insulating films and papers of the highest quality from our own brand SynTherm®.



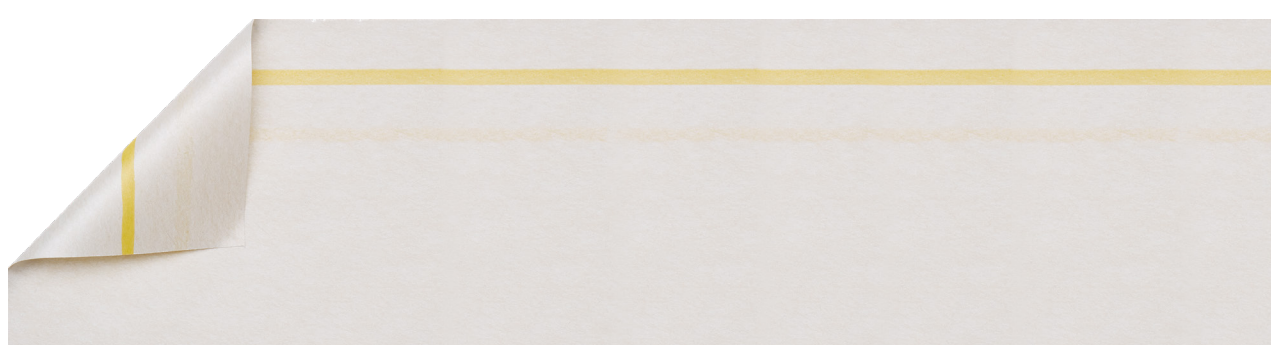
Discover detailed technical information about our products online, including technical data sheets, measurements and dimensions.

	SynTherm® YT510	Nomex® 410	SynTherm® YT56	Nomex® E56
easy to impregnate	★★★★	★★★☆☆	★★★★☆	★★★★☆
mechanical properties	★★★★☆	★★★★☆	★★★★☆	★★★★☆
thermal properties	★★★★☆	★★★★☆	★★★★☆	★★★★☆
electrical properties	★★★★☆	★★★★☆	★★★★☆	★★★★☆
UL QMFZ2 (individual material)	★★★★☆	★★★★☆	★★★★☆	★★★★☆
UL 1446 (system)	★★★★☆	★★★★☆	★★★★☆	★★★★☆
cost factor / savings potential	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆

Electrical insulating paper

Popular insulating materials for high-performance applications in the electrical industry consists mainly of the highly heat-resistant material meta-aramid.

- high oil absorption / absorbency
- flame retardant according to UL 94 V-0
- insulation class H (180 °C)
- high resistance to chemicals



Polyimide film

Our polyimide films are high-performance films and combine exceptional electrical, chemical, thermal and mechanical properties.

- flame retardant according to UL 94 V-0
- self-extinguishing
- insulation class C (200 °C)

	SynTherm® H	Kapton® HN
orientation	monoaxial	biaxial
easy to impregnate	★★★★	★★★★
mechanical properties	★★★★☆	★★★★☆
thermal properties	★★★★☆	★★★★☆
electrical properties	★★★★☆	★★★★☆
UL QMFZ2 (individual material)	★★★★☆	★★★★☆
UL 1446 (system)	★★★★☆	★★★★☆
cost factor / savings potential	★★★★★	★★★☆☆



PET film

Our PET films are ideal as voltage-resistant electrical insulation in your electrical insulation system.

- tensile and tear-resistant polyester film
- excellent hydrolysis resistance
- resistant to common solvents
- insulation class B (130 °C)

	Mylar® A	SynTherm® P	Hostaphan®
easy to impregnate	★★★★	★★★★	★★★★
mechanical properties	★★★★☆	★★★★☆	★★★★☆
thermal properties	★★★★☆	★★★★☆	★★★★☆
electrical properties	★★★★☆	★★★★☆	★★★★☆
UL QMFZ2 (individual material)	★★★★☆	★★★★☆	★★★★☆
UL 1446 (system)	★★★★☆	★★★★☆	★★★★☆
cost factor / savings potential	★★★☆☆	★★★★☆	★★★★☆

Our processing options

To ensure that the insulating films and papers perfectly match your requirements, we offer you comprehensive processing options with our modern machinery.

You can obtain your insulating materials on standard rolls or as customized cuts. Many of the films, papers and laminates are also available as adhesive tapes in various designs.

Combine the insulating materials to increase the technical properties of the products. To ensure you get the best results, we have specialized in the production of laminates and have already included

some material combinations in our standard range. Do you need a combination customized to your requirements? Contact our product manager and plan your customized insulation material with him.

We carry out precise die-cutting of films and papers for you at our plant in Schramberg. This is where we have centered our expertise and work with you to develop the perfect solution for your application. From the initial idea to the finished punched or bent part - our experts will be happy to advise you.

Punched and bent parts

At our plant in Schramberg in the Black Forest, we have modern machinery at our disposal for the production of your die-cut parts. In addition to rotary and stroke punching, we also produce on tool-free laser cutting systems.

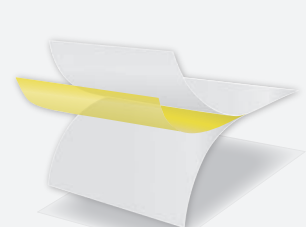
Benefit from the advantages:

- high material availability thanks to centralized warehouse
- tests during production in our own test laboratory
- customized production
- material-friendly production of bent parts
- fast sample supply



Multi-layer insulating materials – Customized laminates

Here too, you can choose between branded products and our SynTherm® own brands.

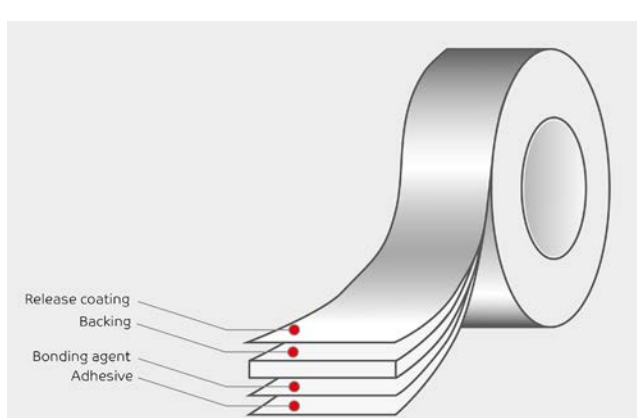


	SynTherm® APA/50 SynFlex brand	SynTherm® NPN/50 Nomex®	SynTherm® APA/130 511 SynFlex brand	SynTherm® NPN/130 411 Nomex®	SynTherm® AHA SynFlex brand	SynTherm® NKN Nomex®/Kapton®
easy to impregnate	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
mechanical properties	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
thermal properties	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
electrical properties	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
UL 1446 (system)	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
cost factor / savings potential	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆	★★★☆☆

Highly technical adhesive tapes

Our electrical adhesive tapes are used as electrical insulation or mechanical protection in electric motors, generators and transformers. They often have to withstand high loads, which is why we manufacture them in accordance with the strictest standards and test them for reliability.

Depending on the application, you may need a different composition for your electrical adhesive tape. We offer you a large selection of different base materials and types of adhesive. The properties of the different base materials in combination with the respective adhesive result in a completely new, highly technical product that you can use in a wide variety of applications in the electrical industry.



Insulating materials of highest quality – also with UL approval

We carry out many analyses and tests in our in-house SynLab® laboratory to ensure the best quality. Many of our insulating materials have UL approval.

If you require further tests, please contact our SynLab® experts. In addition to material analyses and life cycle measurements, we

offer you a broad portfolio of tests and measurement methods to ensure the quality of the materials. We also support you with the new approval, extension or adaptation of existing UL systems.



Get in touch with us and discover our smart alternatives!

Our experts will be happy to advise you.

E-Mail: sales@synflex.com

Phone: +49-5235-968-0

Your advantages



Decades of experience in the production of electrical adhesive tapes and insulating materials.



Numerous options of various material combinations.



High product availability and product variance due to high storage capacities.



Continuously expanded state-of-the-art machinery.



Short lead time thanks to the SynFlex Group network.

Common goal – joint progress:
The Resource of Power.



Insulation Systems, www.synflex.com



Magnet Wires, www.sh-wire.de



Electric Insulation, www.isotek-gmbh.de