



Turning up the heat

Flexible heaters are a multitasking material. They can be as large or as small as you need. They can have almost any shape you like and can also be bent and turned. In this way, heat is distributed evenly and quickly. Something which means they can be used in a number of different contexts and applications.

Flexible heaters can be found in many homes, within industry, the health care sector and the restaurant trade. They warm hands and water beds and help keep everyday items, such as bank machines, rear-view mirrors and antennas, free from snow and ice.

Yet we believe that this is just the beginning. That is why we are looking forward to continuing work on developing new technical laminates adapted for new areas of application.

By constantly accepting new challenges, we have learned a lot of new things and developed both as individuals and as a company. This has also resulted in unique know-how and experience of how to combine conductive and supporting materials in order to produce technical laminates with the properties and performance to meet our customers' needs.

Efficient production of standard products and customised solutions

Skultuna Flexible has state-of-the-art production machinery for manufacturing material solutions. No matter whether this involves long or short production runs, we always work smart. To be able to satisfy our customers' requirements and expectations for efficient production machinery, we continuously invest in new technology and projects to increase capacity.

Skultuna Flexible's desire to question existing solutions and our ability to devise new ones makes us a profitable partner for manufacturers of flexible heaters.

Materials that creates new possibilities

Skultuna Flexible develops and manufactures a complete range of laminates for the flexible heater industry. Technical laminates are typically suitable for high-volume roll-to-roll etching processes.

Our extensive experience in manufacturing technical laminates in large or small volumes ensures you have access to a steady, cost-effective supply of standard and customised materials at the agreed, uniform quality. All our operations are certified according to ISO 9001:2000, ISO 14001:2004 and meet all criteria* for manufacturing for the electronics industry.

Standard materials in our product range include single-side materials, with corresponding cover substrates, shielding materials and heat equalisation. All materials are recognised for their stability and excellent electrical and thermal properties.

These are available in combinations of raw materials selected on the basis of the requirement of the circuit.

General Technical Data

Conductive foils:		Resistivity ($\Omega\text{mm}^2/\text{m}$)
Cu RA	10/20/50 μm	0.017
Al RA	9/12/20 μm	0.029
CuZn	12/25 μm	0.067
CuNiZn	20 μm	0.330
CuNi	25 μm	0.490

Insulating materials	
PET	50/75/125/250 μm
PET HS	50/75/125 μm
PEN	25/50/75/125 μm
PEN HS	50/ 75 μm
PI	25/50/75/125 μm

Other materials and variants are available.

Covers

From the above insulating materials with adhesive 12 μm and 18 μm .

Adhesive

The layers are put together using a two-component high-performance adhesive with optimum chemical and temperature resistance and tailor-made for each material and requirement. 5 μm , 9 μm or 15 μm , among others.

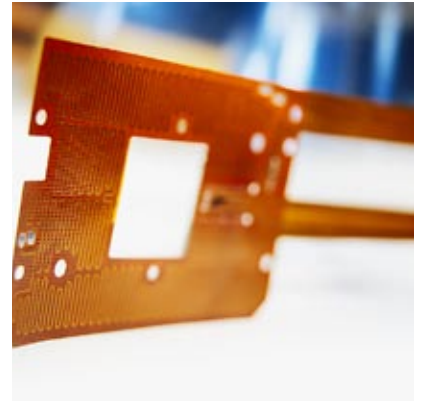
Please contact us for further technical specifications.

Customer-specific materials

Skultuna Flexible also develops and manufactures technical laminates according to your company's specific requirements. The material can be supplied in a variety of combinations using almost any substrate as long as it comes on reels.

Please feel free to contact us for a quote without obligation.

* Our technical laminates fulfil the RoHS requirements (2002/95/EC) and the materials are themselves well in accordance with the IPC requirements.



Our technical laminates are used in numerous applications. We look forward to them being used in even more in the future.



Materials are supplied in the most suitable format for your production process. On large or small reels, in all possible widths or cut into sheets.