



More with less

Consumers have enormous expectations of mobile phone manufacturers. As technology develops, we increasingly expect smaller, more efficient and more reliable products. The same applies to the development of RFID antennas. Despite shrinking external dimensions, we constantly demand improved performance and additional functions.

One consolation is that this has been the case ever since mobile phones became an everyday item. We know this because we have been part of this fantastic journey since the start. As new models with new functions have appeared on the market, so we have developed new technical laminates. In many cases, these have been a prerequisite for developing a working function and also products that could meet the new demands.

By constantly accepting new challenges, we have learned a lot of new things and developed 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

As well as being involved in the development of materials for mobile phone and RFID antennas, here at Skultuna Flexible we also have extensive experience of manufacturing such materials. We have 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 our partnerships profitable.

Materials that creates new possibilities

Skultuna Flexible develops and manufactures a complete range of laminates for the flexible antenna industry. Technical laminates are commonly used for manufacturing antennas for mobile phones and RFID tags and are typically suitable for high-volume roll-to-roll etching processes or stamping.

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-sided as well as double-sided materials and shielding materials. 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	15/18/20/35 μm	0.017
Al RA	9/20/30 μm	0.029
Cu Ed	12/18/35 μm	0.017
CuNiZn	20 μm	0.330

Insulating materials

PET	25/50 μm
PET HS	50/75/125 μm
PEN HS	50/75 μm
PI	25/50 μm

Other materials and variants are available.

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 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 have often provided the necessary conditions for developing products that meet new demands.



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.