



# Antenna & RFID Laminates

**Skultuna Induflex develops and manufactures a complete range of flexible copper laminates** for the antenna & RFID industries. The laminates are commonly used for manufacturing antennas for mobile phones and RFID tags and are typically suitable for roll-to-roll etching processes or stamping. By combining different materials, we make customized laminates that perform well in our customers' unique solutions. We can laminate carrier films toward thin materials to make the thin material user-friendly in process. After the final process the carrier film can be removed. For etched products we have adhesives that are non-sticky when etched laminates are stored on rolls. We also have knowledge of making and transferring laminates from one substrate to another to get etched circuits on papers and nonwoven materials.

Our extensive experience in manufacturing technical laminates in small to large volumes ensures access to a consistent supply of laminates at the agreed, uniform quality. Laminates in our product range include single-sided as well as double-sided laminates and shielding materials. All laminates are recognized for their stability and excellent electrical and thermal properties. Laminates can be supplied on reels, in sheets or other special formats.

## General Technical Data

Conductive foils	Thickness (µm)	Resistivity (Ωmm <sup>2</sup> /m)
Al	9, 20, 30, 50	0.029
Cu RA	10, 15, 18, 20, 35, 70	0.017
Cu ED	9, 12, 18, 35, 70	0.017
CuNiZn (German Silver)	20	0.330

Insulating materials	Thickness (µm)
PET	23, 25, 50
PET hs*	36, 50, 75, 125
PET ehs**	23, 36, 50, 75
PEN	4, 50, 75, 125
PEN hs*	50, 75
PI	25, 50, 75, 125

\*heat stabilized film \*\* extra heat stabilized film  
Other thicknesses and raw materials (e.g. nonwoven, PEN, PI, etc) are also available.

Skultuna Induflex laminates metal foils in thicknesses from 6–100 µm and polymer films from 4–250 µm from roll-to-roll. Paper, cardboard and other thin materials on reels can also be used. In our standard product range, laminates can consist of 2–3 layers but 4 and 5 layers are also possible. We can add functional coatings/primers from 1 µm up to approximately 20 µm.

## Adhesives

Materials are joined together with one or two component high performance adhesives with optimum chemical and/or temperature resistance according to specific requirements. Adhesives are tailor-made for each material and requirement; they can also be colored as well as contain different additives and flame retardants.

## Customer-specific laminates

We develop and manufacture laminates according to your specific requests. Laminates can be supplied in a variety of combinations using any material provided it comes on reels. We can find cost-effective material solutions that fulfill your requirements, and give good durability and mechanical properties in the intended environments.

Please feel free to contact us for further technical specifications or to get a quote without obligations, [info@skflex.com](mailto:info@skflex.com)



# Our core business is flexible laminate perfection

Skultuna Induflex innovates and delivers technical flexible laminate applications for products that make everyday life easier. We do it by utilizing our expertise and technical competence from our three locations in Sweden, Belgium and China.

By combining and laminating materials such as plastic films, metal foils, papers and cardboards, we create an almost infinite number of flexible laminates. This makes it possible to solve problems in new ways, whether it's laminates for shielding, barrier, conduction, reflection, appearance or other purposes.

Please contact us for more information,  
email us at [info@skflex.com](mailto:info@skflex.com) or visit [www.skultunainduflex.com](http://www.skultunainduflex.com)

**SkultunaInduflex** 

INNOVATING FLEXIBLE LAMINATE PERFECTION

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