

# Energy & Climate Control Laminates

Skultuna Induflex develops and manufactures a complete range of flexible laminates for energy and climate control applications. The laminates are used for green house curtains, solar energy products and floor heating systems. By combining different materials, we make customized laminates that perform well in our customers' unique solutions. The function of these laminates can potentially include reflection, absorption, heat emission or heat transmission.

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 can be supplied in reels, sheets or other special formats.

## General Technical Data

Metal foils	Thicknesses (µm)
Al	8, 9, 12, 25, 40, 50, 100
Cu	10, 12, 15, 18, 20, 35, 50, 70
CuZn (Brass)	≥12
Steel	≥38
Polymer films	Thicknesses (µm)
metallized PET	12
PET	12, 19, 23, 36, 50, 75, 125, 250
LDPE/HDPE	30, 40, 75, 100
OPP	30
PVC	30, 55
PEN	4, 50, 75, 125

*Other thicknesses and raw materials 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 put together with one or two component high performance adhesives with optimum chemical and/or temperature resistance according to specific requirements. The adhesives are tailor made for each material and requirement and can also be colored as well as containing different additives and flame retardants.

### Absorption

Skultuna Induflex can manufacture flexible laminates with high absorption ( $\alpha = 91\%$ ) and relatively low emissions ( $\epsilon = 25\%$ ), which can be used as the selective surface in solar energy applications.

### Reflection

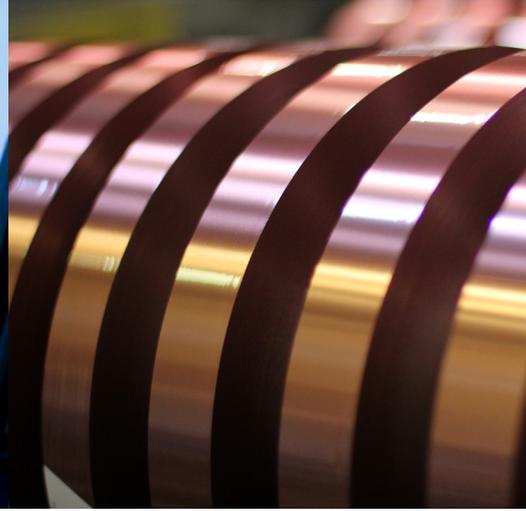
Skultuna Induflex offers flexible laminates for indoor and outdoor applications with high reflectance ( $R_{spec} \geq 85\%$ ). For example, these laminates can be used in climate control products like solar collectors, heating elements, lighting and photovoltaic modules.

### Heat emission and heat transmission

By combining different films and different metal foils, we can manufacture flexible laminates with specific characteristics in terms of emission and transmission of heat. These materials can be used in a wide range of products.

### 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 as long as it comes on reels. We can find cost effective material solutions that fulfill your requirements, give good durability and mechanical properties in the intended environments.



# Our core business is flexible laminate perfection

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

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

Please contact us for more information or visit [skultunainduflex.com](http://skultunainduflex.com)

**Skultuna Induflex** 

**INNOVATING FLEXIBLE LAMINATE PERFECTION**