



18 μ m beats 1,000mm

A lot of castles built in Sweden during the 17th and 18th centuries had stone walls a metre thick. This helped to keep rooms cool in the summer and to store heat for as long as possible in the autumn. It proved an excellent idea. At least until October and November. Today, we can reproduce a similar effect using materials considerably thinner than a strand of hair. And this solution works all year round.

Finding new ways to produce a more constant and comfortable indoor climate is not simply a matter of comfort. As approximately two-thirds of all energy is used for the heating or cooling of houses, it is a matter of the utmost importance in terms of our climate and the environment.

Today, our laminate solutions are used to control indoor climates and save energy in structures such as greenhouses. But both the concept and materials can be developed and adapted to better suit today's homes, offices and industrial buildings.

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

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.

Matters concerning energy, climate and the environment are nothing new to us. The fact is that a large proportion of our production in terms of volume is used to save energy. A stable foundation to build on together.

Materials that creates new possibilities

Skultuna Flexible develops and manufactures flexible laminates for solar and energy applications. By combining different materials we make customised laminates that perform well in our customers' unique solutions. The function of these laminates can potentially include reflection, absorption, heat emission or heat transmission.

Let us help you to find a cost-effective material solution that fulfils your requirements and gives good durability and mechanical strength in the intended environment.

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

Materials can be supplied as reels, sheets or other special formats.

General Technical Data

We laminate metal foils such as copper, brass, steel in thicknesses from 6 to 100 μm and polymers such as PET, PE, HDPE, PP, PVC, PEN, PVF from 4 to 300 μm . Also paper and cardboard can be used. It is possible to add functional coating from 1 μm up to 10 μm .

Reflection

Skultuna Flexible offers flexible laminates for indoor and outdoor applications with high reflectance ($R_{\text{spec}} \geq 85\%$). These materials can be used, for example, in solar collectors, heaters, solar cookers, photovoltaic modules, lighting, light fittings, heating elements and other products for climate control.

Absorption

We 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 collectors for buildings and swimming pools and other solar energy applications.

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.

Please contact us for further technical specifications.



Our technical laminates for climate control can be modified and adapted for homes and offices with a lot of exterior glass.



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.