



Insulation, Barrier & Shielding Laminates

Skultuna Induflex develops and manufactures a complete range of flexible laminates/materials for insulation, barrier and shielding applications such as regulated electrical fields in bushings and insulation and barrier laminates for buildings (for example VIP), electronics and packaging industry applications. By combining different materials, we make customized laminates that perform well in our customers' unique solutions. The technical laminates are commonly used in a number of industries for barrier and shielding of heat, cold, light, sound, gases, moisture and radiation.

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 on reels, in sheets or other special formats.

General Technical Data

Shielding and barrier materials can be combined with a supporting film to improve properties such as durability, appearance and sealing.

Shielding materials	Thickness (µm)
Al	8, 9, 12, 25, 40, 50, 100
Cu	10, 12, 15, 18, 20, 35, 50, 70
Stainless steel	≥38
Pb	36, 125, 250

Barrier materials	Thickness (µm)	Oxygen	Water vapor
Al	8, 9, 12, 25, 40, 50, 100	Excellent	Excellent
Metallized PET	12	Very good	Good
PET (SiOx, AlOx)	12	Very good	Good
PET	12, 19, 23, 36, 50, 75, 125	Good	Poor
PE	30, 40, 75, 100	Poor	Good
PP	30, 40	Poor	Good
PA	15	Very good	Poor

Supporting materials	Thickness (µm)
Papers, Cardboards	40-500
Polymer films	4-250

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.

Laminates

NIP30PE100, PET 12 µm/Al 9 µm/PE 100 µm, is a laminate with superb barrier properties, approved according to MIL-PRF-131K. The laminate is used to make pouches where the PE film is sealable to itself, the PET film is pre-treated for printing and the adhesive can be colored to get colored pouches. Other thicknesses and types of PE and PET films are also available.

Adhesives

Materials are joined 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; 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



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 or visit www.skultunainduflex.com

Skultuna Induflex 

INNOVATING FLEXIBLE LAMINATE PERFECTION

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