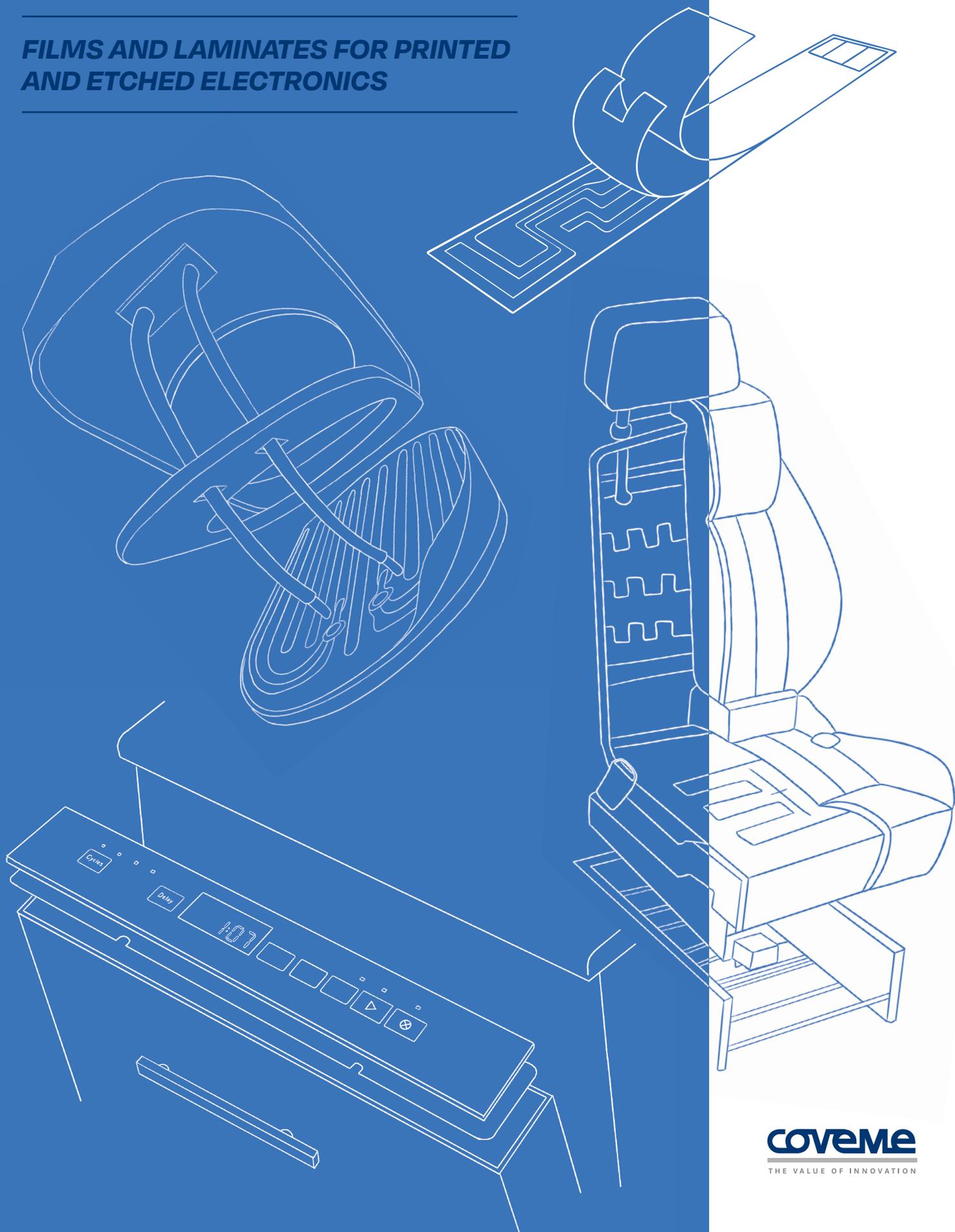


FLEXIBLE CIRCUITRY

**FILMS AND LAMINATES FOR PRINTED
AND ETCHED ELECTRONICS**



COVEME KEYFACTS

With sixty years of expertise in roll-to-roll heat stabilization and coating, along with highly advanced production lines, cutting-edge conversion processes, and rigorous quality control procedures, Coveme is recognized globally for its competence and reliability. The solid partnerships with clients and suppliers developed over the years have allowed Coveme to meet the challenges of a constantly evolving market and to develop innovative products that respond to the needs of the industry.

Coveme is IATF (International Automotive Task Force) certified for suppliers to the automotive industry, which certifies full compliance with global quality standards.

- ✔ **60 years of know how** in PET converting
- ✔ **Automated slitting department** for customized cuts
- ✔ **2 production plants** in Italy and Asia
- ✔ **Worldwide** distribution and service
- ✔ **3 R&D hubs** in Italy, Germany and China
- ✔ **IATF certified** for automotive industry
- ✔ **13 lines:** coating, treatment, lamination and heat stabilization
- ✔ **ISO 9001, ISO 14001 and UNI EN ISO 45001 certified**

COVEME FLEXIBLE CIRCUITRY

Coveme offers a range of treated, heat stabilized and coated films and laminates for roll to roll and sheet to sheet printing systems, as well as etching processes.

They function as flexible substrate in devices such as passenger detecting systems and heating elements in automotive, hydrophilic and printable films for biosensors, membrane switches in electrical appliances, and any other application where a printable and dimensionally stable media is needed.

PRODUCT FEATURES

- ✔ **High Conductive Ink Adhesion**
- ✔ **Hydrophilic Properties**
- ✔ **Excellent Dimensional Stability**
- ✔ **Strong Layer Adhesion**
- ✔ **Lay Flat Properties**
- ✔ **Colour Stability After Etching**
- ✔ **Low Residual Shrinkage**
- ✔ **Flame Retardant Options**

MAIN APPLICATIONS

- ✔ **TFC**, Thin Flexible Circuitry
- ✔ **MTS**, Membrane Touch Switch
- ✔ **RFID**, Radio Frequency Identification
- ✔ **EL**, Electro-Luminescent Devices
- ✔ **POC**, Point Of Care Diagnostics
- ✔ **NFC**, Near Field Communication

PRODUCT RANGE

TREATED, COATED AND HEAT STABILIZED FILMS

Kemafoil® HSPL

TREATED AND HEAT STABILIZED FILM

Kemafoil® HSPL is a range of treated and heat stabilized polyester films with high surface tension and a very low residual shrinkage. They guarantee excellent dimensional stability and outstanding adhesion with conductive inks (carbon, silver, dielectric, etc), adhesives and lacquers. HSPL products are available also on flame retardant base.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	PET COLOUR	THICKNESS
HSPL	Treated and Heat Stabilized	One or Both sides	Transparent, Hazy, White	50 – 350 µm
HSPL HT	Treated and Premium Heat Stabilized	One or Both sides	Transparent, Hazy, White	125 – 175µm

Kemafoil® MTSL

PRIMERED AND HEAT STABILIZED FILM

Kemafoil® MTSL is a range of polyester films primered to enhance the adhesion with conductive inks (carbone, silver, dielectric, etc). The choice of primer type depends on printing processes. Kemafoil® MTSL films are heat stabilized and guarantee excellent lay flat properties during printing processes.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	PET COLOUR	THICKNESS
MTSL	Acrylic primer and heat stabilized	Both sides	Transparent	71 – 175µm
MTSL DY	Co-polyester primer and heat stabilized	One or Both sides	Transparent	125µm, 175µm
MTSL W D	Acrylic primer and heat stabilized	Both sides	White	250µm, 350µm
MSTL W DY	Co-polyester primer and heat stabilized	One or Both sides	White	125 – 350 µm

PET AND ALUMINIUM LAMINATES

Kemafoil® KAL

PET/ALUMINIUM LAMINATE WITH LOW SHRINKAGE

Kemafoil® KAL is a range of polyester film and aluminium laminates for electronic etched circuitry. Their low residual shrinkage guarantees excellent dimensional stability during processing. The layers adhere stongly thanks to specific adhesives, and there is no stickiness and no yellowishing after etching.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	PET COLOUR	THICKNESS (*)
KAL 50/9	PET/Aluminium laminate	Heat stabilized	Transparent or White	PET 50µm / Al 9µm
KAL 125/36	PET/Aluminium laminate	Heat stabilized	Transparent or White	PET 125µm / Al 36µm
KAL 50/20/100	PET/Aluminium/ PET laminate	Treated and Heat stabilized	Transparent or White	PET 50µ / Al 20µm / PET 100µm

*Other thicknesses available on request

HEAT-STABILIZED FILMS

Kemafoil® TSL

HEAT STABILIZED FILM

Kemafoil® TSL is a range of untreated polyester films with a very low residual shrinkage thanks to the heat stabilization process done by Coveme. This makes the films the ideal support for printing processes with high temperature curing. TSL products are also available on flame retardant base, and as optical clear version.

PRODUCT RANGE	CHARACTERISTICS	PET COLOUR	THICKNESS
TSL	Heat Stabilized	Transparent, Hazy, White	50 – 350 µm
TSL OC	Heat Stabilized	Optical Clear	75 – 175µm

HYDROPHILIC FILMS

Kemafoil® HNW C / HHNW C

HYDROPHILIC FILM

Kemafoil® HNW C / HHNW C is a range of films with a hydrophilic coating on one or both sides. Already employed as substrate for the capillary channel in biosensors Kemafoil® HNW C / HHNW C is also printable with conductive inks. Heat stabilization treatment available.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	PET COLOUR	THICKNESS
HNW C	Hydrophilic coating	One side	Clear	50 – 175µm
HHNW C	Hydrophilic coating	Both sides	Clear	50 – 175µm

Kemafoil® HNW C L

HYDROPHILIC FILM WITH LINER

Kemafoil® HNW C L is a range of films with a hydrophilic coating and a removable protective liner. The liner is applied on the hydrophilic coating to assure safe handling. Already employed as substrate for the capillary channel in biosensors Kemafoil® HNW C L is also printable with conductive inks. Heat stabilization treatment available.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	PET COLOUR	THICKNESS
HNW C	Hydrophilic coating	One side with Liner protection	Clear	100 – 190µm

COVEME SUSTAINABILITY

Coveme's commitment to a sustainability has its heart within the production activity, with particular attention to the implementation of production processes designed to limit emissions and consumption, the development of eco-sustainable, recycled and recyclable products.

The company published its first Sustainability Report in 2023 and calculated the organizational Carbon Footprint according to the GHG Protocol, scopes 1,2,3. In 2025 Coveme will implement a Strategic Sustainability Plan and an ESG-focused analysis of suppliers to create an increasingly sustainable supply chain.

PRODUCTS

- ✔ Product Carbon footprint measurement enabling customers to reduce environmental impact
- ✔ Based on Recycled polyester (rPET) available
- ✔ Feasibility of a closed loop recycling scheme

PROCESSES

- ✔ Self-powering and Solvent-free production
- ✔ Recovery and reuse packaging, endcaps and cores
- ✔ Autothermal and regenerative processes
- ✔ Differentiation and recycling of waste
- ✔ Solar energy production and self-consumption
- ✔ Replacement of single-use plastic materials

STANDARDS

Coveme Quality and Sustainability are certified by general and industry specific standards.

The company follows a structured sustainability roadmap with the group's first Sustainability report published in 2023, the implementation of a Strategic Decarbonization Plan in 2024 and the Carbon Footprint calculation based on GHG protocol scopes 1,2,3.



ISO 9001: 2015 for quality management standards



ISO 14001: 2015 for environmental management



ISO 45001:2023 for health and safety at work



Ecovadis Sustainability rating



IATF (International Automotive Task Force) certified as supplier to the automotive industry



THE VALUE OF INNOVATION



Coveme is certified ISO 9001: 2015 for quality management standards, ISO 14001: 2015 for environmental management and UNI EN ISO 45001:2023 for occupational health and safety.



Coveme has received the Bronze Medal Ecovadis certification as the result of a corporate sustainability performance evaluation.



Coveme is IATF (International Automotive Task Force) certified as supplier to the automotive industry.



COVEME.COM



FLEXIBLE CIRCUITRY



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