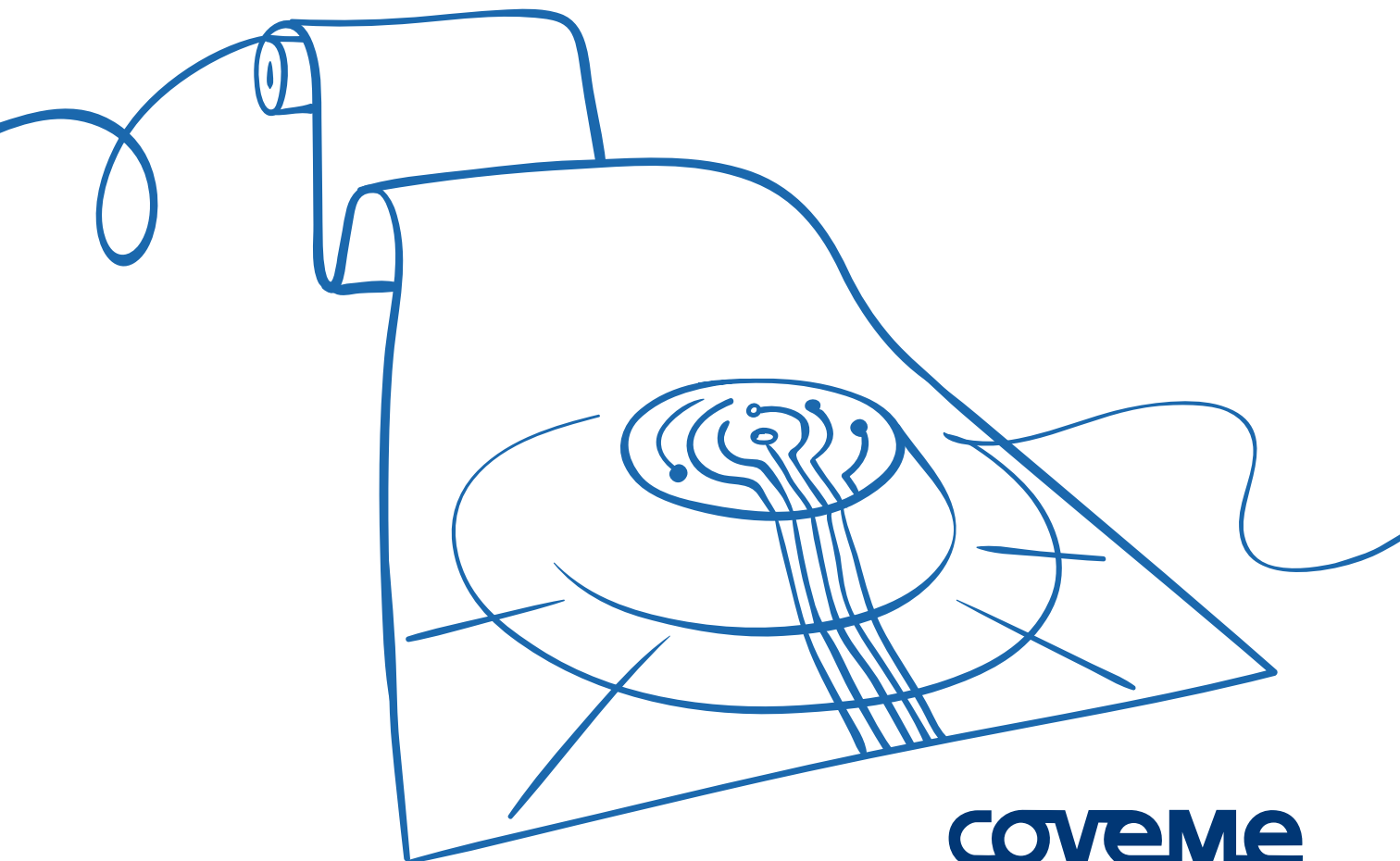


COVEME **FLEXIBLE CIRCUITRY**

*Polyester substrates and laminates
for Printed and Etched Electronics*



COVEME

THE VALUE OF INNOVATION

COVEME - GLOBAL LEADER IN

Coveme has over **fifty years of experience and know-how in converting polyester film** for various industries such as **Automotive, Consumer Electronics, Biotechnologies, White Goods and Renewable Energies**.

The privately owned company with **headquarter in Bologna, Italy**, has **two production sites in Italy and China**, and three research and development **laboratories in Italy, China and Germany**.

Our customers work with advanced production processes in **print, coating and lamination** where **Coveme materials** are designed to **perform under high mechanical stress and guarantee specific chemical and physical properties**.

This is why **Product and Process Innovation** are at the heart of Coveme's activities and **fundamentals for the development of new products for highly technological industries** of rapid growth and continuous evolution. In this context, the **strong partnerships with our clients and suppliers** are of utmost importance and vital for a successful common growth.

- 
- ✓ **OVER 50 YEARS OF KNOW-HOW** in converting polyester film
 - ✓ **LEADING EDGE TECHNOLOGY** in coating, chemical treatment and lamination
 - ✓ **PRODUCTION, R&D and WAREHOUSES** in Europe, Asia and USA
 - ✓ **CERTIFIED QUALITY, SAFETY AND ENVIRONMENTAL** standards
 - ✓ **SUPPLIER OF LEADING PRINTED ELECTRONICS** manufacturers worldwide

ENGINEERED POLYESTER FILMS

AUTOMOTIVE



***MEDICAL
DIAGNOSTIC***

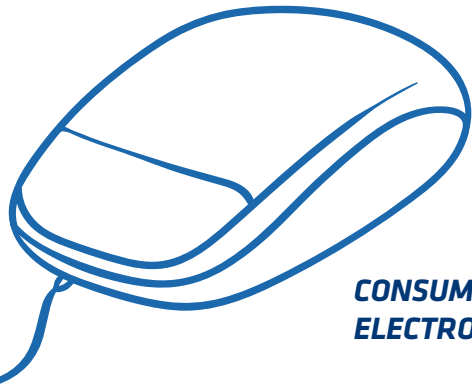


Kemafoil®

***HOUSEHOLD
APPLIANCES***



***CONSUMER
ELECTRONICS***



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
- EXCELLENT DIMENSIONAL STABILITY
- LAY FLAT PROPERTIES
- LOW RESIDUAL SHRINKAGE
- HYDROPHILIC PROPERTIES
- STRONG LAYER ADHESION
- COLOUR STABILITY AFTER ETCHING
- FLAME RETARDANT OPTIONS

MAIN APPLICATIONS

- **TFC**, THIN FLEXIBLE CIRCUITRY
- **RFID**, RADIO FREQUENCY IDENTIFICATION
- **POC**, POINT OF CARE DIAGNOSTICS
- **MTS**, MEMBRANE TOUCH SWITCH
- **EL**, ELECTRO-LUMINESCENT DEVICES
- **NFC**, NEAR FIELD COMMUNICATION

CERTIFICATIONS

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 45001:2018 for health and safety at work



Compliance with Ecomate ESG rating



Compliance with Ecovadis Sustainability rating



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

TREATED, COATED AND HEAT STABILIZED FILMS

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	Heat stabilized	One or Both sides	Transparent, Hazy, White	50 – 350 µm
HSPL HT	Premium heat stabilized	One or Both sides	Transparent, Hazy, White	125 – 175µm

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, Hazy, White	50 – 175 µm
MTSL DY	Co-polyester primer and heat stabilized	One or Both sides	Transparent, Hazy, White	50 – 350 µm

HEAT STABILIZED FILMS AND LAMINATES

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

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 strongly thanks to specific adhesives, and there is no stickiness and no yellowing after etching.

PRODUCT RANGE	CHARACTERISTICS	TREATMENT	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

HYDROPHILIC FILMS

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

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 EUROPE

Italy

Coveme S.p.A.

Headquarters:

Via Emilia, 288
40068 - S. Lazzaro di Savena (BO) - Italy
ph. +39 051 6226111

Production Plant and Registered Offices:

Via Gregorcic, 16
34170 - Z.I. S. Andrea - Gorizia - Italy
ph.+39 0481 579911

COVEME ASIA

China

Coveme Engineered Films Zhangjiagang Co., Ltd.

Production Plant and Office:

No. 16, Yuefeng road, Yangshe Town, Zhangjiagang
City, Jiangsu Province, China
P.C. 215600
Ph. +86 512 82559911

COVEME AMERICA

USA

Coveme America INC

Registered Office:

65 N River Lane, Suite 209 Geneva, IL 60134 (USA)
Tel: +1 (630) 578-6671

Operation Office:

1817 N Shawano Street, New London, WI 54961 (USA)
Tel: +1 (847) 867-1272