Films for biosensors in near patient diagnostic
ENGINEERED FILMS FOR NEAR-PATIENT DIAGNOSTICS
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GLOBAL LEADER IN THE RESEARCH AND CONVERTING OF POLYESTER FILM

☑️ OVER 50 YEARS of know-how in engineered polyester film.

☑️ High tech R&D Labs in Europe and Asia.

☑️ Long-lasting collaboration with international partners.

☑️ Certified quality, safety and environmental standards.

☑️ Worldwide commercial and logistic network.
Coveme has successfully developed sophisticated technologies in the production of high-performance films for various industries. The added value to the normal native PET is given through the application of functional coatings, surface treatments, film stabilization. Clients’ specifications are defined individually and monitored throughout the whole production chain, including suppliers, logistics and service process.

- Coveme is the only supplier with **COMPLETE FILM RANGE** to manufacture biosensor diagnostic kits
- **PERSONALISED** reels, sheets and formats
- **FULLY AUTOMATED** processes
- **14** production lines
- **LAMINATION, SURFACE TREATMENT, HEAT STABILIZATION, COATING, SLITTING**
Our laboratories have always been one of the most advanced and strong points of the company, where our technological and operative know how is at complete disposal of the clients’ needs. Coveme’s R&D team strives to develop new and up to date solutions for evermore sophisticated and precise biosensors, focusing on products that guarantee our customers extreme reliability.

- Strong academic and industrial **PARTNERSHIPS**
- Dedicated **INNOVATION TEAM**
- Proprietary **R&D LABS**
- **STATE-OF-THE-ART** equipment
- **CUSTOMIZED RESEARCH PROJECTS** for clients
QUALITY

Analytical devices must guarantee the highest and consistent performances, hence the film supplied by Coverme does not compromise in quality. We are committed to provide the most reliable and performing products in order to gain and maintain the trust of producers of diagnostic equipments.

✓ PROVEN HIGH QUALITY of PET films for glucose test strips and ECG/EKG sensors

✓ Top standards to secure PREMIUM SUBSTRATE WETTABILITY, DIMENSIONAL STABILITY, NEAR TO ZERO PET CURVATURE

✓ SEVERE QUALITY INSPECTION and production control in each critical phase of the process

✓ INNOVATIVE TECHNOLOGIES ensure limited pre-processing customer operations

✓ CONSTANT INVESTMENT in new machinery - new technology - new process - dedicated and highly skilled personnel
Coveme is well aware of its responsibility in terms of environment and social wellbeing. This is reflected not only in what we produce but also how we produce, which means a lean and green production technology and strategic partnerships with our customers and suppliers. The company continuously optimizes its emission treatments, waste disposal and energy resources and actively pushes forward sustainability and social issues inside and outside the company.

✓ **WHITE CERTIFICATES** achievement
✓ Active **CARBON FOOTPRINT** balancing
✓ Long-standing **SPORTS SPONSORSHIPS**
✓ Regular **CHARITY** donations
✓ **ROHS** and **REACH** compliance
Coveme’s biomedical division supplies polyester films for the manufacturing of near-patient diagnostic kits. This range of products includes treated, coated and heat stabilized films, printable with conductive or enzymatic inks or sputterable with noble metals, as well as hydrophilic films and other customized materials. Coveme’s products are renowned for the extreme reliability, employed by the world’s leading biomedical manufacturers and approved by the major pharmaceutical companies.
Kemafoil® PRODUCT RANGE

HYDROPHILIC COATED PET FILM 10
Kemafoil® HNW/HHNW 11

HEAT STABILIZED AND TREATED PET FILM 12
Kemafoil® HSPL 80/ HSPL 80 W 13

HEAT STABILIZED AND PRIMERED PET FILM 14
Kemafoil® MTSL/ MTSLW 15
HYDROPHILIC COATED PET FILM

Kemafoil® hydrophilic films are used in the manufacturing of IVD devices like colorimetric, amperometric and potentiometric biosensor strips. Thanks to its long-standing experience in the field, Coveme has developed special coatings to enhance the wicking of biological fluids along the capillary channels till the reaction point on the test strip.

- Dimensional stability
- Non-leaching features of hydrophilic layers
- Clear, hazy, white, black and blue colours available
- Superior adhesion with PSA and heat sealable laminating tapes
- Availability in different thicknesses upon request
**KEMAFOIL® HNW/HHNW**

Kemafoil® HNW (1 side coated) and HHNW (2 sides coated) fulfill the highest requests of consistency and reliability due to their features:

- **NO WOBBLING OF DROP**  
  (controlled hysteresis)

- **PREMIUM DIMENSIONAL STABILITY**

- **CONTACT ANGLE < 20°**

- **SPREAD DROP RANGE 46 – 50**

- **NON-LEACHING COATING**

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**COVEME HYDROPHILIC FILM**

**KEMAFOIL® HNW/HHNW**

**ADHESIVE INLAY**

**PRINTABLE BASE FILM**
HEAT STABILIZED AND TREATED PET FILM

Kemafoil® treated and heat stabilized polyester film is suitable to be printed with conductive inks thanks to the premium surface treatment. Main end-uses are the manufacturing of substrates for ECG/EKG electrodes and other printed flexible circuits for medical devices.

- Excellent conductive inks adhesion, maintaining electrical input transport during patient movements
- High bond with cushion substrates and premium dimensional stability
- Tear resistance
- Availability in different thicknesses (36-175 mic)
- Suitable for roll-to-roll and sheet-to-sheet production systems
KEMAFOIL®
HSPL 80/ HSPL 80 W

Kemafoil® HSPL 80 and HSPL 80 W are hazy or white polyester films, both sides surface treated and heat stabilized for ECG/EKG electrodes.

✔️ DIFFERENT VARIANTS
(types 00, 20, 80, 100) with increasing haze values

✔️ PRINT-ADHESION TREATMENT
on either 1 or both sides available

✔️ PREMIUM ADHESION
of inks and pastes

✔️ LOWEST RESIDUAL SHRINKAGE

✔️ HIGHEST SURFACE TENSION

COVEME
PRIMERED FILM

KEMAFOIL®
HSPL 80
HSPL 80 W

EXTERNAL SNAP

CONDUCTIVE COATING SNAP

GEL SOAKED SPONGE

ADHESIVE
HEAT STABILIZED AND PRIMERED PET FILM

Kemafoil® primed polyester films are suitable to be printed with conductive inks. They are employed as base substrate for the manufacturing of amperometric biosensor strips, IVD substrates and other.

- Outstanding conductive inks adhesion
- Suitable roll-to-roll and sheet-to-sheet production systems
- Excellent layflat properties during the inks curing
- Availability in different thickness (50 – 350 mic)
- Optimal adhesion with most common PSA mounting tapes
KEMAFOIL® MTSL/MTSL W

Kemafoil® MTSL and MTSL W are clear or white heat stabilized polyester films with a print receptive coating on both sides.

- **HIGH TREATMENT**
  consistency and durability

- **GRANTED DIMENSIONAL STABILITY**
  to ensure optimal print register

- **Lowest possible**
  RESIDUAL SHRINKAGE, R2R

- Near to zero PET curvature for **BEST Y-REGISTRATION**

- **HIGH PERFORMANCE COATING**
  to promote a superior bond with H2O based inks and pastes
Coveme’s is certified ISO 9001 for quality management standards, ISO 14001 for environmental management and OHSAS 18001 for occupational health and safety.
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