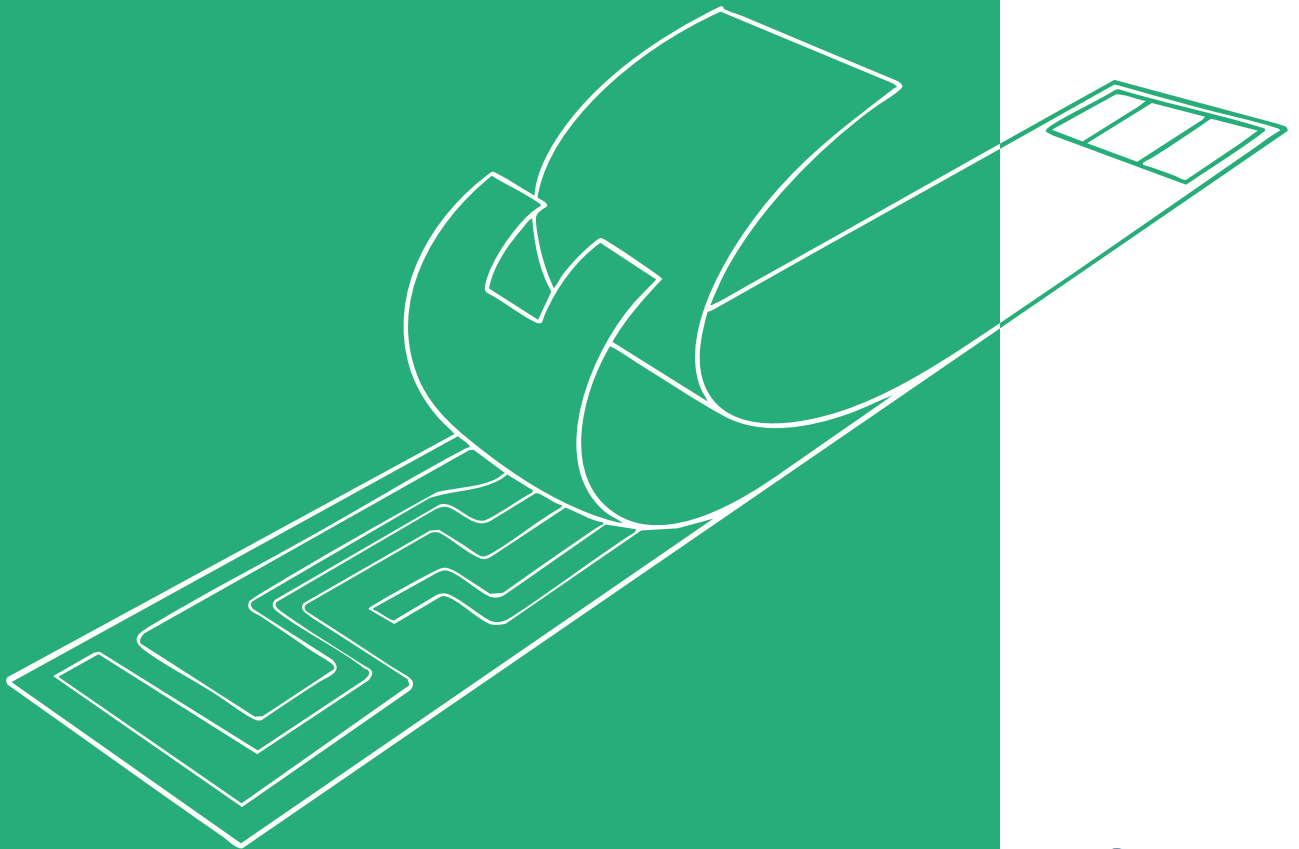


MICROFLUIDIC DIAGNOSTICS

BIOMEDICAL



PRODUCT DESCRIPTION AND FEATURES

Kemafoil® HNW / HHNW are advanced hydrophilic polyester films, specifically coated on one or both sides, designed for use in the production of biosensor strips. These films enhance the capillary action of biological fluids, ensuring efficient flow along the strip to the reaction point, while also providing for precise manufacturing.

Coveme also offers an eco-friendly version, containing recycled PET (rPET) ♻️, which maintains the same high performance as the standard product, making it a sustainable choice without compromising functionality.

- ✓

Hydrophilicity
- ✓

Clear, hazy and white versions available
- ✓

One or two sides treated
- ✓

No dewetting properties
- ✓

Printability
- ✓

Non-toxic to mammalian cells
- ✓

Dimensionally stable
- ✓

Anti-fogging properties
- ✓

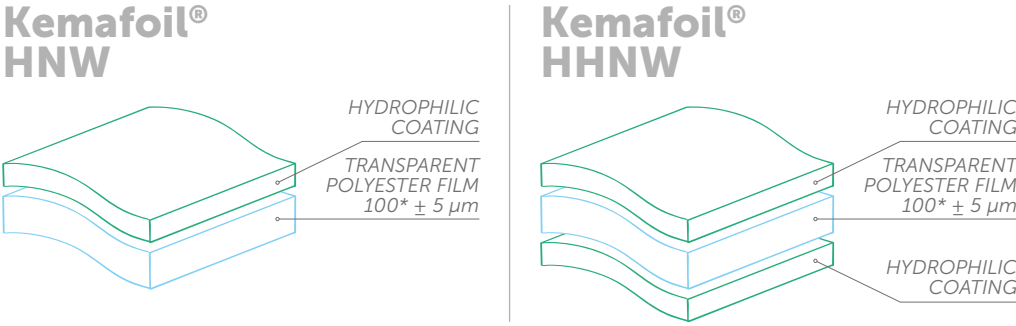
Available rpet version, lower carbon impact
- ✓

Low fluorescence emissions
- ✓

Heat stabilized if required

PRODUCT STRUCTURE

Note:
*Different type of PET film and thicknesses available upon customer request.



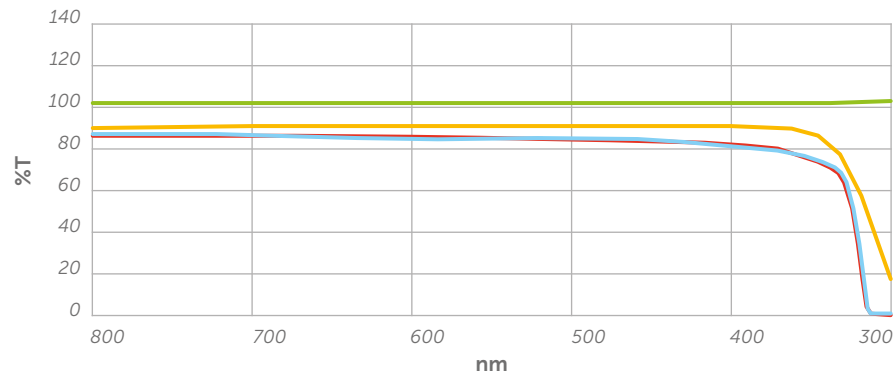
SPECTROSCOPIC CHARACTERIZATION

Product transmittance and fluorescence properties have been characterized using spectroscopy. Results of a competitor Micro-fluidic Diagnostic Film have been reported as a benchmark.

UV VIS TRANSMITTANCE SPECTRA

- QUARTZ
- BOROSILICATE
- KEMAFOIL® HNW
- BENCHMARK

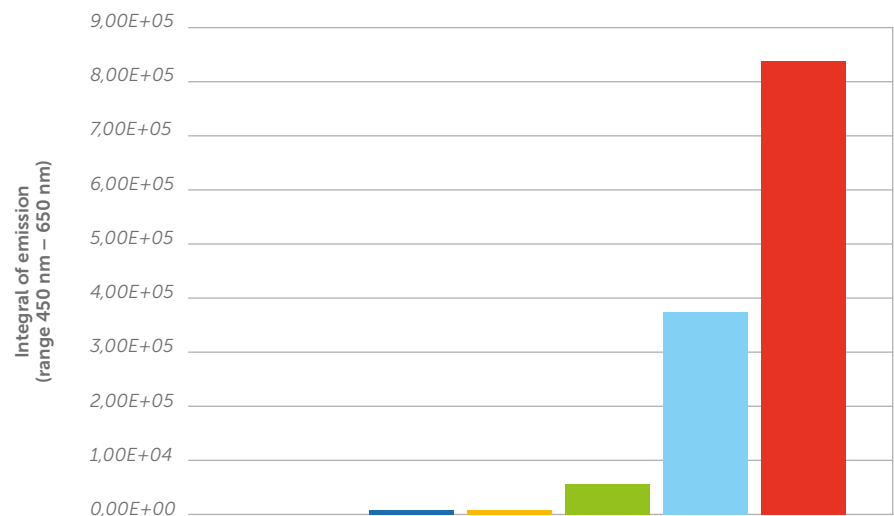
Note: Measurements performed with PerkinElmer UV/VIS Spectrometer Lambda 35



HISTOGRAM OF TOTAL FLUORESCENCE EMISSIONS

- QUININE SULPHATE 10PPB
- QUARTZ
- BOROSILICATE
- KEMAFOIL® HNW
- BENCHMARK

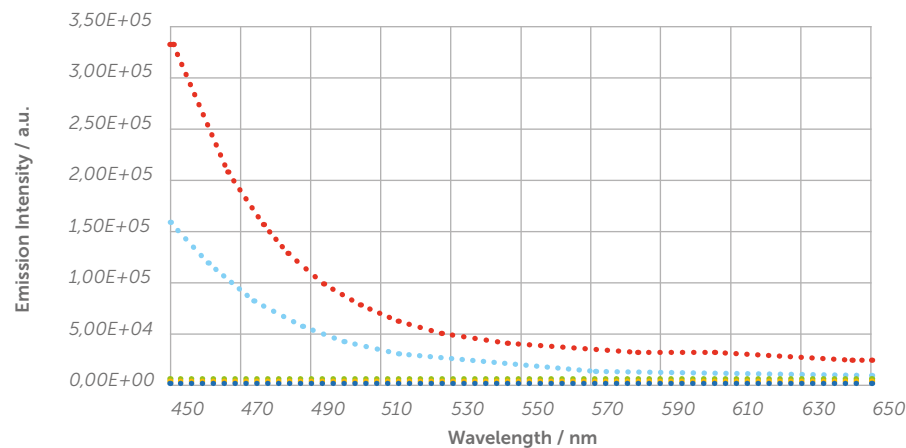
Note: Fluorescence values are normalized in percentage on the Quinine Sulphate, used as a fluorescence standard reference for its high purity and stability. Samples were also compared to other known reference materials, Quartz and Borosilicate.



FLUORESCENCE SPECTRA HYDROPHILIC FILMS

- QUININE SULPHATE 10PPB
- QUARTZ
- BOROSILICATE
- KEMAFOIL® HNW
- BENCHMARK

Note: Emission spectra acquired with an Edinburgh FLS1000 fluorometer, with $\lambda_{exc} = 365$ nm, range of emission 450-600 nm, front-face geometry. The measurements were conducted by the Department of Chemistry, University of Bologna



RECOMMENDED STORAGE CONDITIONS AND SHELF LIFE

Product as supplied in original packaging will maintain stated test properties for a period of 24 months from manufacturing date stamped on shipping container when stored at temperatures between 10-30° C (50-86°F) and a relative humidity between 30-60 percent. Keep product in original packaging until use.



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



BIOMEDICAL



FOLLOW US ON



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