

## HYDROPHILIC FILMS

White polyester film, one side coated with a hydrophilic treatment that prevents the fluids from wobbling. Kemafoil® HNW W white has been specifically designed for the manufacturing of diagnostics strips. Purpose of the hydrophilic coating is to improve the wicking of biological fluids through the strip, to the analytical reagents or enzymatic pastes, applied onto the strip.

PROPERTIES	U.M.	TEST METHOD	VALUE 50 μ	VALUE 75 μ	VALUE 100 μ	VALUE 125 μ	VALUE 175 μ	VALUE 190 μ	VALUE 250 μ
THICKNESS	micron	internal	50 +/- 5%	75 +/- 5%	100 +/- 5%	125 +/- 5%	175 +/- 5%	190 +/- 5%	250 +/- 5%
UNIT WEIGHT	g/sqm	internal	70	105	140	175	245	266	350
TENSILE STRENGTH (MD)	MPa	ASTM D 882	122	122	122	122	122	122	122
TENSILE STRENGTH (TD)	MPa	ASTM D 882	152	152	152	152	152	152	152
ELONGATION AT BREAK (MD)	%	ASTM D 882	> 50	> 50	> 50	> 50	> 50	> 50	> 50
ELONGATION AT BREAK (TD)	%	ASTM D 882	> 50	> 50	> 50	> 50	> 50	> 50	> 50
HEAT SHRINKAGE (MD) (150°C FOR 30 MIN)	%	ASTM D 1204	0,3	0,3	0,2	0,2	0,2	0,2	0,2
HEAT SHRINKAGE (TD) (150°C FOR 30 MIN)	%	ASTM D 1204	0,2	0,2	0,2	0,2	0,2	0,2	0,2
TOTAL LIGHT TRANSMISSION (TLT)	%	ASTM D 1003	19	14	8	7	4	4	2
SPREADING DROP TEST (*) (hydrophilic treated side)	points	internal	>= 46 typical 50*	>= 46 typical 50*	>= 46 typical 50*	>= 46 typical 50*	>= 46 typical 50*	>= 46 typical 50*	>= 46 typical 50*

\* that corresponds to a typical contact angle of 10/15 ° measured with Fibro Pocket PGX Goniometer

Shelf Life - 1 year from production date

The above information is given in good faith and is generally reliable. However, the customer will have to examine the suitability of the film for individual application. Hence no general or particular warranty for the applications of the film is offered by us. The above information is liable to change due to innovation and improvement in the manufacturing process. We assume no liability for any infringement of any patent, copyright or design on the part of the customer while exploiting the film for different end-uses.



Kemafoil® is a Coveme registered trademark

Coveme spa is UNI EN ISO 9001-2008 and ISO 14001 certified

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