

HYDROPHILIC FILMS

Transparent polyester film, one side coated with a hydrophilic treatment that prevents the fluids from wobbling. Kemafoil® HNW has been specifically designed for the manufacturing of diagnostics strips. The 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	183	183	176	176	176	176	176
TENSILE STRENGTH (TD)	MPa	ASTM D 882	196	196	183	183	183	183	183
ELONGATION AT BREAK (MD)	%	ASTM D 882	100	110	110	120	120	120	120
ELONGATION AT BREAK (TD)	%	ASTM D 882	100	110	100	110	110	110	110
HEAT SHRINKAGE (MD) (150°C FOR 30 MIN)	%	ASTM D 1204	1,8	1,6	1,6	1,6	1,4	1,4	1,4
HEAT SHRINKAGE (TD) (150°C FOR 30 MIN)	%	ASTM D 1204	0,4	0,4	0,4	0,4	0,4	0,4	0,4
HAZE (**)	%	ASTM D 1003	1,5	1,5	1,5	1,5	1,8	1,8	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

** (depending on base film)

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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