

HYDROPHILIC FILMS

Transparent polyester film, two sides coated with a hydrophilic treatment that prevents the fluids from wobbling. Kemafoil® HHNW 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 | gr/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 | 100 | 100 | 110 | 110 | 110 | 110 |
| HEAT SHRINKAGE (MD) (150°C FOR 30 MIN) | % | ASTM D 1204 | 1,8 | 1,6 | 1,6 | 1,4 | 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 (*) | 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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