



L'ISOLANTE K-FLEX

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TECHNICAL PERFORMANCE ALU

REV. NR.
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PAG. 1/1

TECHNICAL DATA SHEET ALUMINIUM FOIL AL 99.5 %

In accordance with DIN 1784 + 1712
High-grade aluminium – AL 99.5%
soft or hard, smooth, thickness 0.05 – 0.3 mm

Water vapour permeability

Water vapour passage coefficient

$k_D = 3.922 \text{ (m}^2\text{h Pa/mg)}$

Measured at thickness 0.05 mm

Water vapour diffusion equivalents air layer thickness
at 50 my thickness

$\mu \cdot d = 2.824 \text{ m}$

Expansion:

Longitudinal direction

6.94 %

Transverse direction

7.98 %

Tensile strength

70 - 90 N/mm²

Tear propagation stability:

Longitudinal direction

1.0 N

Transverse direction

0.99 N

Piercing resistance:

Longitudinal and transverse direction

0,50 J

Fold bending in the cold in accordance with SIA norm N 280 at -10° C no cracks

Alteration to shape in the heat: test at 80° C

Longitudinal direction

- 0.2 %

Transverse direction

+ 0.1 %

Tolerances

Band width

± 0.5 %

Properties:

- absolutely gas and water vapour-tight
- not inflammable normal VI in accordance with SIA norm 183/2
- construction material class A1 in accordance with DIN 4102
- chemically resistant against all greases, acids and oils apart from alkaline and fluorine dissolved in water, unrottable
- important for installation in damp and wet rooms
- corrosion-resistant as aluminium forms a natural oxide protective layer on contact with air and dampness
- temperature-resistant up to 700° C
- highly reflecting
- bright-rolled aluminium foils reflect approx. 95 % of the radiation arising
- physiologically and bacterially neutral
- no breeding ground for bacteria and vermin, therefore no impairment or damage to the human