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

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

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 %

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