DARCO INDUSTRIES
Industrial Insulation & Safety Materials

20 Dobra Road,
Yangebup WA 6164
Ph: +61 8 9418 8826
Mobile: +61 402 002 359
Email:

Technical data sheet for pure Aluminium foils

Product description: Pure aluminium foils, alloy 1050A, 1200, 8011, 8079
Soft (= temper O), soft, plain, mill finish
Thicknesses from 0,009 up to 0,300 mm
Condition H0: soft annealed.

Characteristics of the aluminium foil

	longitudinal direction	cross direction
Tensile strength	70 - 90 N/mm^2	70 - 90 N/mm^2
Elongation	6,94 %	7,98 %
Puncture resistance	0,50 J	0,50 J
Deformation at 80° C	- 0,02 %	+ 0,01 %

Indicative values:

Electrical conductivity	36,9*106 Siemens/m
Electrical resistivity	2,7*10-8 Ohm*m
Thermal conductivity	237 W/(m*K)
Thermal expansion coef.	23,5 *10-6 K-1 (von 0-100 °C)
Density	2,7 g/cm3

Tolerances:

Foil thickness	± 8 %
Foil width	± 0,5 mm

Fire classification A1 according DIN 4102 and EN 13501-1
Melting point at 580 °C - 600 °C

Vapour diffusion resistance value

- Vapour diffusion resistance value: k_D = 3,9 (m^{2}hPa/mg)

equivalent air space thickness at a thickness of foil of
0,010 mm s_d-value = approx. 550 m equivalent air space thickness
0,030 mm s_d-value = approx. 1’650 m equivalent air space thickness
0,050 mm s_d-value = approx. 2’750 m equivalent air space thickness
0,100 mm s_d-value = approx. 5’500 m equivalent air space thickness

All data is based on our knowledge and experience. It’s intended as an advice without legally binding.