

Product data sheet



Product: MS1300TS
mirosol® TS
solar absorbing paint on aluminum

4700/0138/008/09.22

Additional information mirosol® TS is characterised by high resistance to heavy environmental pollution, salty air, humidity, condensation, oil and dirt as well as a low stagnation temperature in flat-plate collectors.

Alloy ¹ Al EN AW 1200A or purer
Hardness ² H46

Treatment front side (S1) lacquered
Treatment reverse side (S2) Raw, degreased

Coating system (S1) Lacquer

Supply form

Metal Thickness [mm] Coil, strip, sheet, blanks
0,30 - 0,50
Width up to [mm] 1250,00

Optical Values

Solare Absorption [sol] 0,90 ± 0,02
Thermal emission at 212 °F [] 0,17 0,23
Colour value a* [-] -1 up to +2 DIN 5033-7 (10°)
Colour value b* [-] -1 up to +2 DIN 5033-7 (10°)

Mechanical Properties

Tensile strength Rm [MPa] 105
Yield strength Rp 0,2 [MPa] 85
Elongation at break A50 [%] 2

Tolerances

Metal Thickness [mm] ± 0,04
max Width/Coil [mm] + 3,00 / - 0,00
Width Slit Coil [mm] ± 0,20 standard
Longitudinal Curvature [mm] 1,00 on a measuring length of 1000 mm
Length [mm] 0 - 600 + 1,00 / - 0,00
[mm] 601 - 1500 + 1,50 / - 0,00
[mm] 1501 - 2500 + 2,50 / - 0,00
[mm] 2501 - 3500 + 3,50 / - 0,00
Flatness [%] 2 % of wavelength
Transversal Divergency [mm] 1,5 (D1-D2)
other tolerances on request

Protective Film

Protective Film Type [-] PE - Film
Protective Film Thickness [µm] 50 - 60

¹ based on DIN EN 573-3 (Aluminium) resp. Rolling mill standard

² based on DIN EN 485-2 (Aluminium) resp. Rolling mill standard

