

Product data sheet

Product: 20851L
Reflective 85 weatherproof

4700/0298/004/04.22

Additional information High reflective and weather resistant solar mirror surface

Alloy ¹ Al 1050 or purer
Hardness ² H44

Treatment front side (S1) brightened, anodised, clear lacquered
Treatment reverse side (S2) anodised

Coating system (S1) anodic layer; nano-composite lacquer

Supply form

Coil, strip, sheet, blanks
Metal Thickness [mm] 0,5
Width up to [mm] 1250,00

Optical Values
hemispheric solar reflectance [%] 87 ± 2
diffuse solar reflection [%] 6 ± 4

Mechanical Properties
Tensile strength Rm [MPa] >100
Yield strength Rp 0,2 [MPa] >90
Elongation at break A50 [%] 2
Bending radius 4.0 x gauge of material

Tolerances
Metal Thickness [mm] $0,50 \pm 0,04$
max Width/Coil [mm] + 3,00 / - 0,00
Width Slit Coil [mm] $\pm 0,20$ 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 [%] 1,5 % of wavelength
Transversal Divergency [mm] 1,5 (D1-D2)
other tolerances on request

Protective Film
Protective Film Type [-] PE - Film
Protective Film Thickness [μ m] 50 - 60

diffuse and hemispheric solar Reflection is measured according
https://www.solarpaces.org/wp-content/uploads/202004_SolarPACES-Reflectance-Guidelines-V3.1.pdf

The functionality of the protective film can be guaranteed for max. 6 months from delivery, provided that the defined storage conditions are observed. Protect from direct sunlight.

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

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