

# Product data sheet



**Product:** Eta plus Alu  
eta plus® AL

4700/0845/006/03.22

**Additional information** eta plus® achieves a very high solar absorption of up to 96% – combined with a very low thermal emissivity of just 3%.

**Alloy** <sup>1</sup> Al 1050 or purer  
**Hardness** <sup>2</sup> H18, roll-hard

Treatment front side (S1) PVD-coated  
Treatment reverse side (S2) anodised

Coating system (S1) selective absorptive layer

## Supply form

Coil, strip, sheet, blanks  
Thickness [inch] 0.008/0.0118/ 0.0197  
Width up to [inch] 49.2126

## Optical Values

Solare Absorption [α sol] 0.96 - 0.03  
Thermal emission at 100°C [ε @ 100°C] 0.05 ± 0.02  
Colour value a\* [-] +4 up to +11 DIN 5033-7 (10°)  
Colour value b\* [-] -25 up to -16 DIN 5033-7 (10°)

## Mechanical Properties

Tensile strength Rm [ksi] min 20.3  
Yield strength Rp 0,2 [ksi] min 17.4  
Elongation at break A50 [%] min 2  
Bending radius ≥ 1.5 x gauge of material

## Tolerances

Thickness [inch] 0.0008 - 0.0197 ± 0.0016  
Width/Coil [inch] + 0.1181 / - 0.0000  
Width Slit Coil [inch] ± 0.0079 standard  
Longitudinal Curvature [inch] ≤ 0.0394 on a measuring length of 39.3700  
Length [inch] 0.0000 - 23.6220 + 0.0394 / - 0.0000  
[inch] 23.6221 - 59.0551 + 0.0591 / - 0.0000  
[inch] 59.0552 - 98.4252 + 0.0984 / - 0.0000  
[inch] 98.4253 - 137.7953 + 0.1378 / - 0.0000  
Flatness [%] 2 % of wavelength  
Transversal Divergency [inch] ≤ 0.0591 (D1-D2)  
other tolerances on request

## Protective Film

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

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

<sup>2</sup> based on DIN EN 485-2 (Aluminium) resp. Rolling mill standard

