



DATA SHEET
PRODUCT
ALUPURE





ALUPURE

ALUPURE is a top performance product ideal for highend architectural surfaces, fully complying with safety and environmental sustainability. The ALUPURE aluminium sheet guarantees perfect flatness and resistance to mechanical stress, hence its suitability for replacing aluminium-plastic-aluminium composite panels. The PVDF coating gives the product extraordinary resistance to atmosphere

agents, thus providing a pleasing finish which does not deteriorate over time. ALUPURE is not flammable and does not pose any fire risk, as its aluminium core is non-flame propagating and does not emit toxic gases or fumes, unlike plastic core panels. Unlike what happens with a plastic core panels, it is more resistant to high temperatures.

ALUPURE

This technical data sheet refers to aluminium substrate product version

TREATMENT

2 stage degreasing + chrome-free passivation

TOP SIDE

PVDF PRIMER: 5 micron
TOP COAT: 20 micron PVDF (gloss: 30 gloss units max)
or
PVDF PRIMER: 10 micron
BASE COAT: 15 micron PVDF
TOP COAT: 12 micron transparent PVDF (gloss: 50-80 gloss units max)

BACK SIDE

BACK COAT

The main advantages offered by ALUPURE are:

- non-combustible material
- perfect flatness
- PVDF coating provides ultimate resistance to UV rays and other aggressive agents
- wide range of colours and finishes (pastel and metallic)
- optimum mechanical properties
- bendable, with no need for rear side milling
- eco-compatibility : 100% recyclable
- excellent Life Cycle Cost
- minimized maintenance

TOP: 20 µm PVDF	TOP: 12 µm transparent PVDF
PRIMER: 5 µm	TOP: 20 µm PVDF
2 mm ALUMINIUM SUBSTRATE	PRIMER: 10 µm
	2 mm ALUMINIUM SUBSTRATE

TECHNICAL SPECIFICATIONS

substrate alloy	5754 - 3005
physical state	H42-H44
thickness	2.0 mm
mechanical properties	in accordance with UNI EN 485-2
width	up to 1.250 mm
length	coils or sheets, up to 6.000 mm
coating	25 µm PVDF paints for standard finishes; 37 µm for metallic finishes
colors	main colours from RAL folder and customized finishes upon demand
protective film	peelable, transparent or black/white
off-cuts recycling	100% recyclable

QUALITY TESTS

TEST	VALUE	REFERENCE STANDARD
thickness	25 / 35 µm	EN 13523-1 (ECCA T1)
gloss	*	EN 13523-2 (ECCA T2)
pencil hardness	HB-F	EN 13523-4 (ECCA T4)
resistance to rapid deformation (impact test)	100%	EN 13523-5 (ECCA T5)
adhesion after indentation (cupping test)	100%	EN 13523-6 (ECCA T6)
adhesion after bending at 25°C	1-2T**	EN 13523-7 (ECCA T7)
resistance to cracking on bending (t-bend test) at 25°C	1,5-2T**	EN 13523-7 (ECCA T7)
solvent resistance (MEK rubbing test)	>100	EN 13523-11 (ECCA T11)

* see table "Gloss Acceptance Requirements"
** according to substrate physical state

GLOSS ACCEPTANCE REQUIREMENTS

GLOSS CATEGORY	GLOSS RANGE	ACCEPTABLE VARIATION
1 (matt)	0-30	+/- 5 units
3 (gloss)	50-90	+/- 10 units

PRODUCT

