

PVDF · 15–20YR WARRANTY

PVDF Coated ACP Datasheet

KYNAR500-based fluorocarbon coating baked 2–3 times for a 25 µm+ film. The standard choice for exterior wall cladding.

Overview

PVDF coated ACP is the panel most exterior facades are built from. The fluorocarbon resin — a KYNAR500-based system — is applied over a chemically converted aluminum skin and baked two to three times to build a film of 25 µm or more. That film is what keeps a facade looking the same in year eighteen as it did in year one.

We coat, laminate and pack the panel on our own three lines in Jiangyin, so the coil, the coating schedule and the lamination record all sit under one roof and one batch number.

Material Build-Up

Skin	Aluminum alloy coil, coated on the precision line after chemosynthesis pre-treatment
Core	Polyethylene core, or B1 / A2 fire-rated core on request
Bonding	Adhesive polyolefin film, laminated under heat and pressure
Surface	PVDF fluorocarbon top coat over primer, ≥ 25 µm

Standard Specifications

Standard widths	1220 / 1250 / 1500 / 1550 / 2000 mm
Standard lengths	2440 / 3050 / 4880 mm
Total thickness	2 – 6 mm
Aluminum skin thickness	from 0.30 mm (customizable)
Coating thickness	≥ 25 µm (measured 27–30 µm)
180° peel strength	≥ 7.0 N/mm (measured 11.2 N/mm)
Bending strength	≥ 100 MPa (measured 121 MPa)
Salt spray resistance	3000 h, grade 1
Artificial weathering	4000 h, color difference ≤ 4.0 (measured 1.24)
MOQ	500 m² per color
Colors	36+ standard colors, unlimited custom matching
Packing	Strong wooden pallet or nude packing

Key Benefits

15–20 years without abnormal fading

Acid and alkali resistant, with 3000 h salt spray at grade 1 and 4000 h accelerated weathering at a measured color difference of 1.24.

A film you can measure

Specified at ≥ 25 μm and typically measured between 27 and 30 μm, verified per batch.

36+ colors held in stock

Standard colors ship in 7 days from deposit; custom matching runs about 15 days from color approval.

Bonded, not just painted

Chemosynthesis pre-treatment forms a dense oxide film so the coating is mechanically keyed to the metal.

Technical Features

KYNAR500-based fluorocarbon system	70/30 PVDF-acrylic blend, applied in 2–3 passes and cured at 230–250°C.
Skin from 0.30 mm	Standard test sample is a 4 mm panel with 0.30 mm skins; heavier skins are available on request.
Peel strength above benchmark	180° peel specified at ≥ 7.0 N/mm, measured at 11.2 N/mm.
Widths to 2000 mm	1220, 1250, 1500, 1550 and 2000 mm standard; lengths 2440, 3050 and 4880 mm.

Quality Control

Coating thickness	≥ 25 μm, verified per batch
Pencil hardness	≥ HB (typical result: H)
Boiling water resistance	2 h, no change
Acid / alkali resistance	5% HCl and 5% NaOH, 24 h, no change
Solvent resistance	100 rubs, base coat not exposed
Salt spray resistance	3000 h, grade 1
Accelerated weathering	4000 h, color difference ≤ 4.0 (typical: 1.24)
Peel strength (180°)	≥ 7.0 N/mm (typical: 11.2 N/mm)

Customization Options

- Any RAL or Pantone reference, or a matched physical sample
- Skin thickness above 0.30 mm
- Panel width and length to your cutting list
- Protective film printed with your own brand
- Core upgrade to B1 or A2 on the same colour

Commercial Terms

MOQ	500 m ² per colour; 1,000 m ² for fully custom colours
Lead time	7 days from deposit on stocked colours; about 15 days from colour approval on custom colours
Container loading	About 3,500 m ² in a 20ft; about 8,500 m ² in a 40ft HQ (1220 × 2440 × 4 mm)
Incoterms	FOB Shanghai or Ningbo, CIF, CFR, EXW Jiangyin
Payment	New customers: 30% T/T deposit, 70% against copy of B/L
Packing	Nude on wooden pallet, or wooden-pallet packing with corner protection (about +3%)

Contact

Company	Jiangyin ACP Industry Co., Ltd.
Brand	ALUCOVERBOND
Address	No.19, Shuxin Rd, Huashi Town, Jiangyin City, Jiangsu Province, China 214421
Sales contact	Allen
WhatsApp	+86 134 0579 7951
Tel	+86 510 8620 6771
Email	sales@alucoverbond.com
Working hours	Mon–Sat 08:30–18:00 China Standard Time (GMT+8)
Website	alucoverbond.com