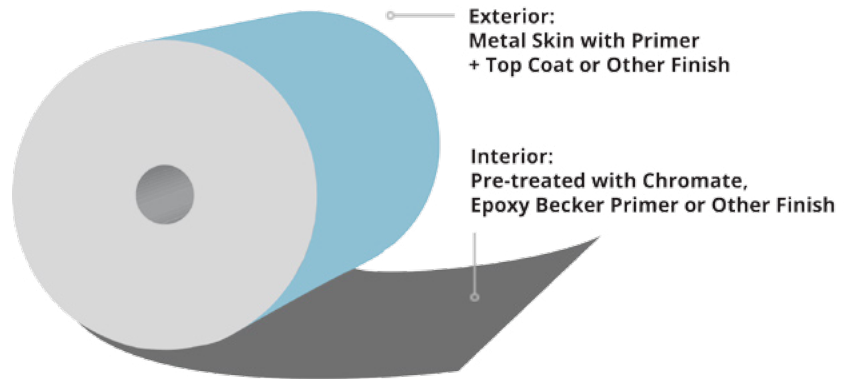


Coils & Sheets

Coils & Sheets offer maximum flexibility for a diversity of projects.

Coils & Sheets are ideal for OEM manufacturers who would like to produce their own composite panels or end products and are interested in the special high-end finishes ALCOPLA offers. They can be pre-treated on the back side with chromate or any finish or primer, such as Epoxy Becker, for easy processing at separate facilities. There are a variety of metals available—aluminum, stainless steel, steel, copper, and more. These can be coated with color paint finishes, Physical Vapor Deposition (PVD) finishes, anodized finishes, or our specialty textured finishes. Each coil or sheet is processed continuously on one of our in-house coating lines, then cut to size at the end of the line.



Continuous Coating Information

ALCOPLA processes all its coils and sheets in-house on one of our specialized coating lines. All lines are continuous and offer even, consistent finishes well above industry standards.

Applications Include

Coils & Sheets are best used by OEM manufacturers to create their end products because of their size and bulk. However, many users choose to install ALCOPLA coils & sheets directly on their surfaces.

- Architectural curtain wall
- Hallways, ceilings, partitions, door panels
- Signage
- Highway tunnels, column covers, spandrel panels, fascia
- Cladding, beam wrap, interior décor, elevators
- Kitchen appliances such as dishwashers, refrigerators, etc.

Material Composition

ALCOPLA's Composite Panels are coil-coated with PVDF (KYNAR 5000) resin-based polyvinylidene fluoride, then put through a high temperature stove of approximately 287° C. This process ensures an even balance of color, gloss, consistency, weather tolerance, corrosion resistance, and color retention on all ALCOPLA panels. The bottom side is treated with chromate or wash-coated to provide long-term corrosion resistance. ALCOPLA's Composite Panels are also available in a variety of other finishes—such as Physical Vapor Deposition (PVD), anodized, and other specialty finishes.

Fire Ready Information

ALCOPLA's Composite Panels are also available as a fire-ready product, ALCOPLA FR. ALCOPLA FR has slightly different components, however equal performance. It is certified through NFPA285, ASTM E119, and ASTM E84.

SPECIFICATIONS & PRODUCT TOLERANCES

	Maximum width (mm)	Standard Width (mm)	Length	Total Thickness (mm)	Skin Thickness (mm)
Aluminum	1575	1220, 1250, 1570, 1575	Any	max 2.0	0.1-1.5
Steel	1250	1250	Any	max 2.0	0.3-0.5
Stainless Steel	1250	1250	Any	max 2.0	0.3-0.5

*Specifications may vary depending on the type of metal

SURFACE PROPERTIES FOR PHYSICAL VAPOR DEPOSITION (PVD) COATING EXAMPLE: TITANIUM COATING

Property	Testing Method & Description	Result
Surface Coating	Pure Titanium (PVD)	2u
T-Bend	ASTM D-4145	2T
Salt Fog	ASTM B-117	Passes 1000 hours
Acid Resistance	ASTM D-1308 10% muriatic acid	No effect
Alkali Resistance	ASTM D-1308 25% sodium hydroxide	No effect
Gloss Retention	G-154 QUV 2000 hours	>60%
Color Retention		Within 2.5 Δ E
Chalk Resistance	ASTM D-659	None

SURFACE PROPERTIES FOR PVDF (KYNAR) COATING ON ALUMINUM

Test	Test Standard	Performance
Flexibility	T-Bend ASTM D-4145-83(1996) No cracking or finish flake off	1T
	Cylindrical Mandrel Bend ASTM D-4145-83(1996) 180° bend around 1/8" mandrel	No Cracking
Acid Pollutants Resistance	ASTM D-1308-87(1993) 10% Muriatic acid	No effect
Alkali Resistance	ASTM D-1308-87(1993) 10%,25% Sodium hydroxide, 1 hr.	No effect
Salt Spray Resistance	ASTM B-117-95 5% Salt Fog @95° F	Passes 4,000 Hr.
Color Retention	ASTM D-4214-89, Test Method D659 Florida exposure: 10 Years,@ 45° S	Max. 5 Units Change
	ASTM D-822-96,G23-93, G26-90,G53-93	Passes 5,000 hr. No objectionable chalking, color change or adhesion loss
Chalking Resistance	ASTM D-4214-89 Test Method D659 Florida exposure 10 Years,@ 45° S	Max. Rating of 8