



DuPont™ Tedlar® PVF film for metal roofing and facades

Why Tedlar® film for Metal Exteriors?



Advanced resistance to UV exposure and weather for up to 50 years with no coastal waterway restrictions



Long-term color stability, low signs or fading, chalking or visible cracking



Chemically inert surface to protect against harsh solvents and pollution



Easy to clean stains and graffiti for reduced maintenance cost

With its unique combination of strength, chemical inertness, and weatherability, DuPont™ Tedlar® polyvinyl fluoride (PVF) film has provided long-lasting protection on metal surfaces around the world for decades. Trusted in a wide range of industries for its proven performance in extreme environments, Tedlar® brings time-tested durability and beauty to today's architectural metal building products.

Tedlar® PVF film is superior to other protective coatings, including paint. It won't fade, chalk, crack, blister or check from UV exposure, acid rain or dirt. Even projects within 1500 feet of the ocean, including direct oceanfront properties will not experience degradation from sea water and salt spray. Tedlar® is impervious to harsh chemicals and with unmatched pliability can be fabricated to the tightest of radii without cracks, loss of adhesion or color change.

DuPont™ Tedlar® PVF Film Performance Standards

DuPont™ Tedlar® PVF film correctly applied to metal panels will meet the following performance criteria for the duration of the warranty period:

- Color fade maximum rating of delta E (CIE 94) 5 units – ASTM 2244
- Chalking maximum rating of 6 – ASTM D4214
- Film surface – no cracking or checking visible in the film surface from a minimum distance of 2 meters with un-aided eye

Product Only Warranty by application type:

Horizontal Roofing Application	Up to 30 years for chalk and color
	Up to 40 years for film surface
Vertical Wall Panel Application	Up to 40 years for chalk and color
	Up to 50 years for film surface

These critical qualities are warranted upon appropriate adhesion of Tedlar® PVF film independently of the substrate and the application process. This represents a distinct advantage compared to paint, which requires careful control of the substrate preparation, the application process and the paint formulation and storage conditions.



Tedlar® PVF film is available in many colors for roofing or facades.

Properties of DuPont™ Tedlar® PVF film laminated on coil versus generic PVDF coated coil

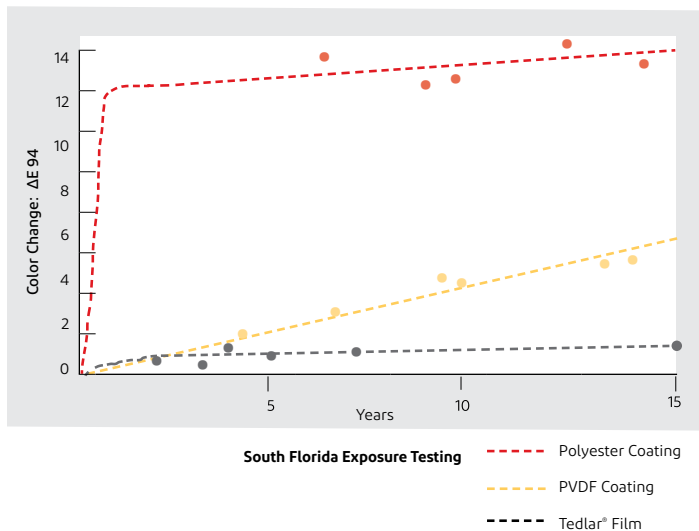
Polyvinyl fluoride film vs. Polyvinylidene fluoride

Property	How to Test and Measure	Standard	Results	
			PVF	PVDF**
Adhesion	2 hour boiling water	ASTM D3359	100%	100%
Chemical resistance	5% HCl spot test		800 hours	168 hours
	10% NaOH spot test		Greater than 1000 hours	336 hours
	Nitric acid exposure		Delta E <3	Delta E <5
Coating flexibility	T bend	ASTM D4145	0T	2T
Hardness	Pencil hardness	ASTM D 3363	HB-F	H
Specular Gloss	60 degree	ASTM D523	~10	~40
Corrosion resistance	Salt spray	ASTM B117	Greater than 3000 hours on aluminum	1500 hours***
Humidity resistance		ASTM D2247	Greater than 4000 hours	4000 hours
Color change		ASTM D2244	No more than 4.5ΔE Hunter units at 15 years	

*Type of TWH15BL3 **Results may vary by manufacturer ***Field area

Built for Performance, South Florida Tested

In prolonged exposure to sun, DuPont™ Tedlar PVF film shows low color change on metal surfaces per the South Florida Exposure Testing.



† Color change performance for Midnight Black; 15-year performance ΔE < 4.5 based on color selected.

Decades of Exposure – See how Tedlar® PVF films stand the test of time:



From left to right: 50 years on hotel in Paris, 20 years on roof in Japan, 30 years on industrial site facade in NY, USA, 39 years on coastal roof in Japan.

Photo credit: Nippon Steel

For free samples, product information and/or application support contact us: EC-TEDLAR@DuPont.com
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