

Benefits of Tedlar® PVF Film: The Premium Architectural Metal Protective Solution



Application

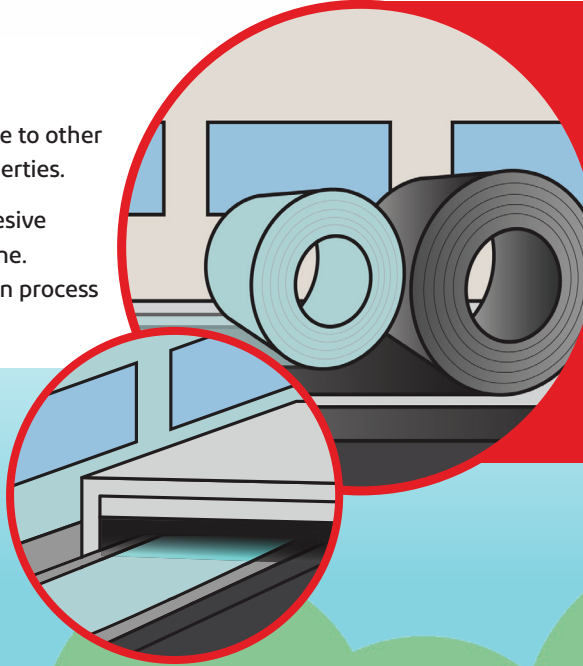
Tedlar® Film

Tedlar® PVF Film offers a superior alternative to other coil coating options, due to its inherent properties.

Tedlar® film is typically applied with an adhesive directly to the metal coil, on a coil coating line. DuPont certifies the adhesive and application process to ensure a high quality, lasting lamination.

Current Coil Coatings (PVDF, FEVE, SMP)

Typically, PVDF, FEVE, or SMP coatings are used on metal coil or panels. These coatings require a primer, a top coat, and sometimes a clear third coat to achieve a desired level of metal protection. Each layer of additional materials requires time and heat for the solvent to dry off.



Tedlar® is:

- In stock
- Made in America
- Proven over decades outdoors with almost no visible color change
- Available with 50 year warranties (no coastal restrictions)

Quality Control

Tedlar® Film

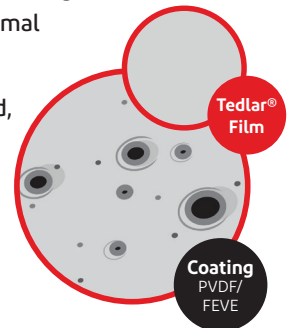
Tedlar® PVF film for metal exteriors is made with a biaxially-oriented process—meaning that the film is stretched in every direction to optimize flexibility and check for quality. This process reveals any holes or weaknesses in the film.

This stretching process makes the film stronger and tougher—ensuring it exhibits optimal mechanical properties in use.

When adhered to metal and fabricated, the film stretches and retains shape, ensuring a consistent level of protection on all areas.

Current Coil Coatings

During the coil coating process, as the solvent dries off, gas bubbles often form and pop under the paint surface, causing tiny pinholes. Over time, corrosive elements (like saltwater) can penetrate these weak areas in the coating, and damage the metal beneath.



Flexibility

Tedlar® Film

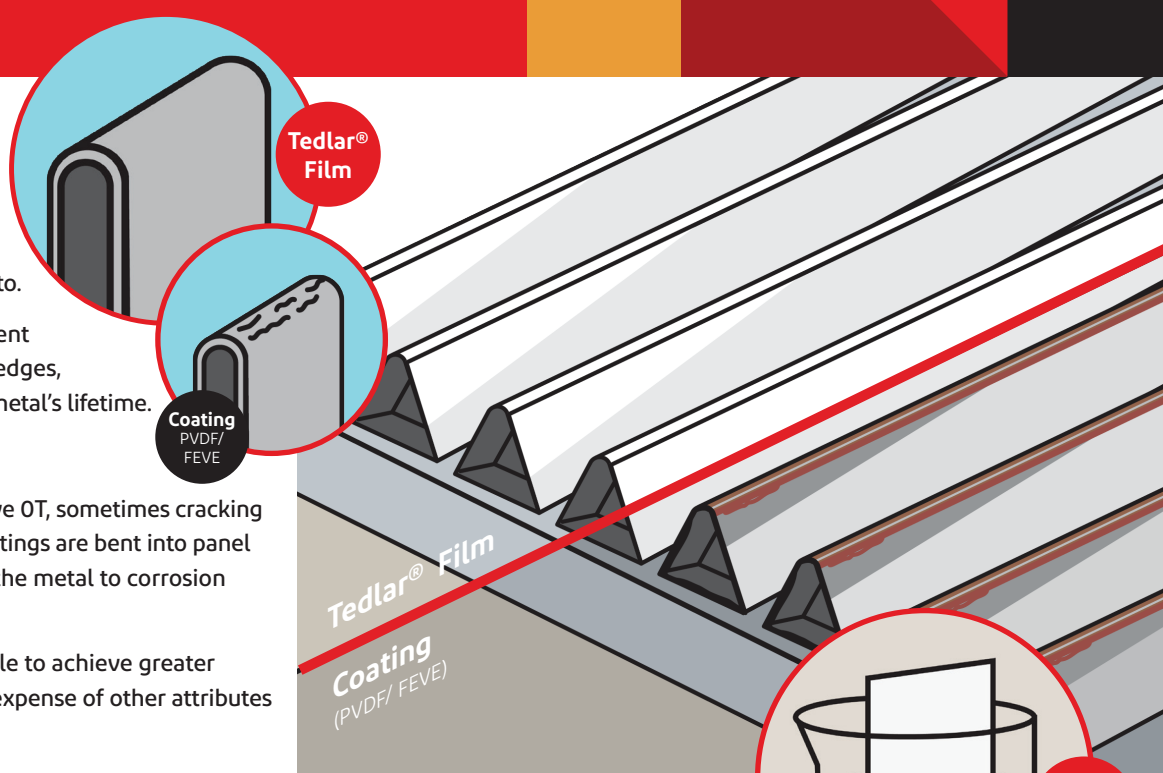
Film can achieve OT bend regardless of the metal or substrate it is applied to.

Tedlar® film naturally exhibits excellent formability and won't crack on bent edges, either during fabrication or over the metal's lifetime.

Current Coil Coatings

PVDF coatings typically cannot achieve OT, sometimes cracking at 1,2T (lesser bends). When these coatings are bent into panel shapes, they risk cracking, exposing the metal to corrosion over time.

Even when paint formulations are able to achieve greater flexibility, they typically do so at the expense of other attributes such as chemical resistance.



Maintenance

Tedlar® Film

Tedlar® is dirt-shedding and resists stains and discoloration, ensuring a lasting new look. Due to minimal color change over time, if a replacement is required, only the managed panel need be replaced, reducing labor and material cost.

Current Coil Coatings

When a coating becomes dirty or damaged, or a panel needs replacement, the entire roof typically needs to be re-painted to ensure color matching and consistency. Many coatings warranties require a fresh water rinse. Tedlar® does not require a rinse and typically requires less maintenance under warranty.



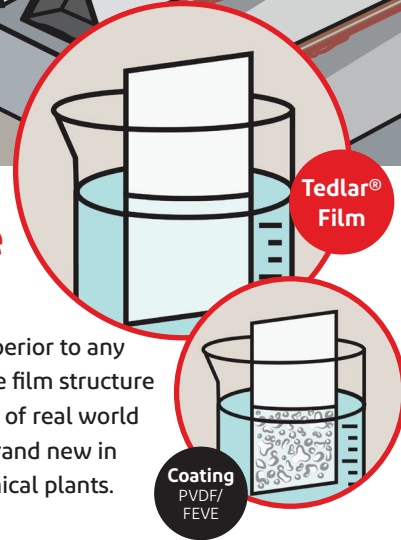
Chemical Resistance

Tedlar® Film

Tedlar® exhibits chemical resistance superior to any coil coating on the market, thanks to the film structure and PVF polymer properties. In decades of real world applications, Tedlar® remains looking brand new in applications by the coast or inside chemical plants.

Current Coil Coatings

While some coatings exhibit good chemical resistance, they all exhibit blistering and cracking significantly faster than Tedlar®, in both lab tests and real applications. Highly corrosive environments require periodic re-coating as the paint blisters and exposes the metal.



Over the lifetime of a building:



Tedlar® film has excellent lasting protection against corrosive elements, thanks to its flexibility and chemical resistance.



Tedlar® film is dirt-shedding and anti-graffiti, so the building maintains a clean, fresh look without required maintenance.



Tedlar® has been proven in real world exterior applications for 60+ years, looking as good as new in demanding environments.



Tedlar® films have excellent UV resistance and very low gloss and color change, maintaining appearance over decades of exposure.



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