Applications for Tedlar®

July 2020
What is Tedlar®?
Tedlar® is a DuPont registered trademark for a **highly versatile polyvinyl fluoride (PVF) film** that provides a long-lasting finish to a wide variety of surfaces exposed to harsh environments; while its inert, non-stick properties make it an excellent release film.
Why Tedlar®?

**Interiors**
- ✓ Cleanability
- ✓ Chemical/solvent resistant
- ✓ Stain/graffiti resistant
- ✓ Excellent flame & smoke rating
- ✓ Long term protection
- ✓ Endurable style
- ✓ Excellent formability
- ✓ Does not support the growth of Mold and Mildew
- ✓ Heat sealable
- ✓ Ink & print receptive

**Exteriors**
- ✓ UV & weather stability
- ✓ Chemical resistance
- ✓ Stain/dirt resistant
- ✓ Temperature stability
- ✓ Colour stability
- ✓ Range of surface gloss
- ✓ Low toxicity & volatiles
- ✓ Bendability
- ✓ Low gas/ vapor permeability
- ✓ Sound transmitting
Tedlar® PVF Applications

Proven applications, globally, for over 50 years

Aerospace & Transportation

Building & Construction

Healthcare

Industrial

Composite Release

Photovoltaics

Signage
## Tedlar® PVF Films, Dispersions & Polymers: Demonstrated Substrates & Commercial Applications

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<tr>
<th>Tedlar® Products, Application Process</th>
<th>Substrates that Tedlar® is Applied to...</th>
<th>Applications / Uses</th>
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<tr>
<td>Tedlar® PVF Films &amp; Adhesives, via Lamination</td>
<td>PET</td>
<td>Solar panel backsheets, automotive brightwork</td>
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<tr>
<td></td>
<td>Steel</td>
<td>Building roofing, siding, etc.</td>
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<tr>
<td></td>
<td>Aluminum</td>
<td>Building Siding</td>
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<tr>
<td></td>
<td>Poly (vinyl chloride) a.k.a. “Vinyl”</td>
<td>Sports domes, tents, wallpaper, signage &amp; graphics, awnings, automotive trims, passenger rails</td>
</tr>
<tr>
<td></td>
<td>Engineering thermoplastics (ABS, polycarbonate)</td>
<td>Hard signs, touch membranes, thermoformed parts, aerospace, skylights</td>
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<tr>
<td></td>
<td>Aramid (Nomex®, Epoxy and phenolic)</td>
<td>Aerospace panels</td>
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<tr>
<td></td>
<td>Fiberglass reinforced plywood panels (FRP)</td>
<td>Truck bodies</td>
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<tr>
<td></td>
<td>Glass reinforced plastic panels (GRP)</td>
<td>Greenhouses, skylights, building panels, electric utility boxes, radome panels</td>
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<td></td>
<td>Scrim</td>
<td>Reinforcement for insulation liners in aerospace</td>
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<td></td>
<td>Foil</td>
<td>PV, pipe jacketing</td>
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<tr>
<td></td>
<td>Urethane &amp; Vinyl</td>
<td>Roofing, aerostats/blimps</td>
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<tr>
<td></td>
<td>Dacron™ &amp; Mylar® PET</td>
<td>Sailcloth protection (marine)</td>
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<td></td>
<td>Bitumen</td>
<td>Low angle roofing</td>
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<tr>
<td></td>
<td>Tedlar® PVF film</td>
<td>Heat seal to create envelopes for gas sampling, acoustical wraps, insulation bags, (Bridge) cable wraps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tedlar® PVF Dispersions or Polymers, via Coating</th>
<th>PET</th>
<th>Solar panel backsheets, release films, etc.</th>
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<tbody>
<tr>
<td></td>
<td>PVDF</td>
<td>Chrome-look surfaces (automobiles, rail, appliances)</td>
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<td></td>
<td>Steel</td>
<td>Brake fluid tubing, architectural panels</td>
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<tr>
<td></td>
<td>Fabrics</td>
<td>Architectural fabrics (tents, domes, etc.)</td>
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Building and Construction Applications: Exteriors

Tedlar® protective film helps extend the look and life of your design, even in the most extreme environments. From severe weather to harsh chemicals, Tedlar® protective film provides long-term durability and performance.

**Application Areas:**

- Curtain walls
- Formed or flat metal building panels
- Roofing
- Siding, trims and accents
- Indoor and outdoor fabrics
- Flexible laminates for air-inflated structures, canopies, awnings and stadium domes
- Highway sound barriers
- Pipe and vessel jacketing
**Tedlar® Exterior Installation**

Tedlar® on metal lamination installed on roofing & curtain walls

**Building:** Samsan Gymnasium

**Location:** Incheon, South Korea

**Tedlar® surface:** 10,484 m²
Building and Construction Applications: Interiors

Tedlar® protective films do not support mold, mildew growth or bacteria, providing superior surface protection in even the most extreme and high-traffic environments. Additionally, Tedlar® is impervious to harsh chemicals like bleach and easy to clean.

Tedlar® protective film can easily be applied to a range of surfaces, providing the flexibility to design your way, and the surface performance to keep it that way.

Typical Applications Include:

- Tedlar™ Wallcoverings
- Wall paneling
- Acoustical and ceiling panels
- Flooring
- Doors and window frames
- Furniture
- Healthcare applications
- HVAC
Tedlar™ Wallcoverings & Wall Paneling: Installations
Commercial Passenger Aircraft Applications

Tedlar® has protected the interiors of aircraft since 1964 and continues to be an industry standard today.

Tedlar® was specified in commercial aircrafts due to its high standards of nonflammability. It is certified by FAA and EASA with excellent fire resistance properties.

Tedlar® continues to be used because of its durability. Aircraft interiors see thousands of passengers over years and stay looking clean year after year.

**Interiors**
- Sidewalls
- Stow bins
- Window shades
- Ceiling panels
- Partitions
- Monuments
- Galleys
- Lavatories
- Closets

**Secondary Structures**
- Landing gear bay
- Insulation Blankets
- Cargo protection
- Labeling
- Composite release
- Composite protection
Passenger Rail Applications

Similar to aircraft, passenger rail sees similar traffic flow of customers through the doors daily.

The overall durability, stain resistance, and cleanability make Tedlar® ideal for many different areas inside and outside a rail car.

Tedlar® has great thermoformability making it ideal for manufacturing interior sidewalls.

Tedlar® is resistant to mold and mildew.

Application Areas:

- Sidewalls
- Doors
- Ceiling panels
- Lavatories
- Closets
- Even HVAC
- Seats casing and backsides
- Partitions
- Galleys
- Graphics and signage
- Interior insulation
Graphic Signage Applications

Tedlar® Graphic Film (TGP) Film

Is the ideal surfacing material for graffiti resistance and protection against fading and corrosion.

Why Tedlar® TGP Film?

• Weather/UV resistant up to 10 years
• Outstanding graffiti resistance
• Long-term protection of brand message
• Impervious to harsh chemicals and atmospheric pollution
Other Applications

Gas Sample Bags:
Resistance to gas permeation along with chemical inertness to maintain sample integrity

Composite Release:
High-performance release for various compounds including fiber-reinforced polymer (C/FRP)

Transfer Printing:
Excellent printability and release from rubber and metal
Tedlar® PVF Film Applications Circa 1963

**WEATHERPROOF SIGN**
Face is DuPont Tedlar film

- The surface of the company’s broad, transparent, and weather-resistant sign is a DuPont Tedlar film. The radiance and brilliance of the Tedlar film make the sign a distinctive example of how foil can be applied, without the risk of discoloration or damage.

**INSULATION JACKET**
Surfaced with DuPont Tedlar film

- Insulation jackets are made from Tedlar film and offer superior protection from the elements and harsh environments.

**METAL BUILDING**
Surfaced with DuPont Tedlar PVF film

- Metal buildings can be coated with Tedlar PVF film, providing durability and protection against weathering.

**WEATHER RESISTANT TAPE**
Based upon DuPont Tedlar PVF film

- Weather resistant tape is made using the Tedlar film for added toughness and durability.

**INFINITY JACKET**
Surfaced with DuPont Tedlar film

- Infinity jackets are treated with Tedlar film to provide exceptional resistance to environmental factors.

**PREFINISHED ALUMINUM**
Surfaced with DuPont Tedlar PVF film

- Alumunium panels coated with Tedlar film offer enhanced protection against corrosion and environmental wear.

**FIBERGLASS PANELS**
Surfaced with DuPont Tedlar PVF film

- Fiber glass panels with Tedlar film applied provide resistance against sun and weather.

**ROOF MATERIAL**
Surfaced with DuPont Tedlar PVF film

- Roof materials treated with Tedlar film offer durability and resistance to environmental conditions.

**PLYWOOD SIDING**
Surfaced with DuPont Tedlar PVF film

- Plywood siding treated with Tedlar film offers protection against wear and environmental factors.

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