Applications for Tedlar®

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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®? | ✓ Cleanability | ✓ UV & weather stability |
| ✓ Chemical/solvent resistant | ✓ Chemical resistance | |
| ✓ Stain/graffiti resistant | ✓ Stain/dirt resistant | |
| ✓ Excellent flame & smoke rating | ✓ Temperature stability | |
| ✓ Long term protection | ✓ Colour stability | |
| ✓ Endurable style | ✓ Range of surface gloss | |
| ✓ Excellent formability | ✓ Low toxicity & volatiles | |
| ✓ Does not support the growth of Mold and Mildew | ✓ Bendability | |
| ✓ Heat sealable | ✓ Low gas/vapor permeability | |
| ✓ Ink & print receptive | ✓ Sound transmitting |
Tedlar® PVF Applications

Proven applications, globally, for over 50 years

Aerospace & Transportation
Building & Construction
Healthcare
Industrial
Composite Release
Photovoltaics

Signage

Proven applications, globally, for over 50 years
### Tedlar® PVF Films, Dispersions & Polymers: Demonstrated Substrates & Commercial Applications

<table>
<thead>
<tr>
<th>Tedlar® Products, Application Process</th>
<th>Substrates that Tedlar® is Applied to…</th>
<th>Applications / Uses</th>
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<tbody>
<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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<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>
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<tr>
<td></td>
<td>Engineering thermoplastics (ABS, polycarbonate)</td>
<td>Hard signs, touch membranes, thermoformed parts, aerospace, skylights</td>
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<td></td>
<td>Aramid (Nomex®, Epoxy and phenolic)</td>
<td>Aerospace panels</td>
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<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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<td></td>
<td>Urethane &amp; Vinyl</td>
<td>Roofing, aerostats/blimps</td>
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<td></td>
<td>Dacron™ &amp; Mylar® PET</td>
<td>Sailcloth protection (marine)</td>
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<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>
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</tbody>
</table>

| Tedlar® PVF Dispersions or Polymers, via Coating | PET | Solar panel backsheets, release films, etc. |
| PVDF | Chrome-look surfaces (automobiles, rail, appliances) |
| Steel | Brake fluid tubing, architectural panels |
| Fabrics | Architectural fabrics (tents, domes, etc.) |
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
- Galley
g- 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 a DuPont Tedlar PVF film

METAL BUILDING
surfaced with DuPont Tedlar PVF film

WEATHER RESISTANT TAPE
based upon DuPont Tedlar PVF film

INSULATION JACKET
surfaced with DuPont Tedlar PVF film

FIBERGLASS PANELS
surfaced with DuPont Tedlar PVF film

PREFINISHED ALUMINUM
surfaced with DuPont Tedlar PVF film

ROOF MATERIAL
surfaced with DuPont Tedlar PVF film

PLASTIC SIDING
surfaced with DuPont Tedlar PVF film

Industrial Equipment News