

PPG TESLIN® Substrate

Gutenberg never imagined  
anything like this.



**Anything is possible with PPG TESLIN® substrate in your hands.**

PPG TESLIN® substrate is a unique microporous synthetic paper that is durable, tamper-evident, highly printable and excels in print projects and other applications that demand a tough, high-performance material.

Several performance attributes make *Teslin* substrate ideal for commercial print projects:

- Prints like paper! No special inks, special coatings and long-dry times required (like other synthetics)
- Stands up to the heat of laser printing; other synthetics may melt
- Resists chemicals, solvents, abrasion and water
- Delivers unparalleled strength when bonded to laminate film
- Accommodates a variety of converting methods and finishing techniques
- Offers a unique texture and feel



## Durability and versatility that paper and other synthetics just can't match

As a microporous, single-layer, polyolefin material, PPG TESLIN® substrate is like no other synthetic paper or printable plastic.

The porous, uncoated material is highly durable and locks inks, adhesives, coatings and laminating films into its structure, making printed information and images virtually permanent and produces vibrant color with crisp, clear print definition.

### Rugged Durability

Harsh environments and punishing applications are no match for *Teslin* substrate. Compare these performance benefits with other synthetic papers:

- Resists abrasion and protects printed text and graphics without needing a laminate or protective coating.
- Unlike other synthetics, the water- and chemical-resistant qualities allow *Teslin* substrate to endure steam-pressing and dry-cleaning without a coating.
- *Teslin* substrate has a broad temperature range and remains pliable in temperatures from -70°C/-94°F to 180°C/356°F. Other synthetics can become brittle in low temperatures or melt in high temperatures.
- While many synthetic substrates are vulnerable to static build-up, the micropores in *Teslin* substrate naturally absorb and dissipate static, reducing the potential for electrical discharge.

### Ideal for Laminated Applications

*Teslin* substrate exhibits unparalleled strength when bonded to laminate film.

- Forms adhesive bonds that are up to 10 times stronger than many other synthetic materials.
- Can easily be die-cut to any shape.
- Fuses with laminate film so edge seals are not required.



### Easy, High-Quality Printing

Compatible with a broad range of print technologies, *Teslin* substrate is ideal for applications that demand processing flexibility.

- Unlike other synthetic papers, *Teslin* substrate doesn't require special inks or drying equipment.
- Digital print-ready right out of the package, no corona treatment or coating needed.
- Inks and toners absorb into the material instantly for quick dry-times, nearly indestructible printed text and graphics, and faster processing than other synthetics.
- Can be duplex and dual-surface printed with high-quality graphics, digital photos, bar codes and micro-text, making it ideal for variable print projects.
- Accommodates a variety of converting methods and finishing techniques for design flexibility and creativity.

### Product Grades for Specific Application Needs

*Teslin* substrate is available in enhanced grades for applications such as food contact and supply chain security.

For more information, or to request a sample, please visit [teslin.com](http://teslin.com)



### Typical Applications

- Print
  - Waterproof maps
  - Heavy-duty manuals
  - Racing bibs
  - Temporary license plates
  - Wristbands
  - Menus
  - Luggage tags
  - Ultra-durable POP advertising

- Cards
  - Loyalty
  - Gift
  - Insurance
  - Healthcare
  - Access cards
  - Smart cards

- Labels
  - PSA
  - In-mold
  - Drum, pallet and shipping
  - Identification, safety and warning
  - Food and beverage packaging
  - Medical and pharmaceutical
    - Cleanroom labels
  - Nursery and horticulture tags

Evaluation of specific product applications is recommended as end-use conditions and manufacturing methods vary.