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Microporous

## SYNTHETIC PAPER



### Microporous Precipitated Silica for Synthetic Paper Applications

Synthetic paper, a print material made from plastic rather than wood pulp, is commonly used in applications where the ability to perform in demanding environments is paramount.

Created and commercialized by PPG, TESLIN® substrate is a proprietary synthetic paper based on high-performance, high-quality microporous precipitated silicas also developed and produced by PPG. The precipitated silica is aggregated in a matrix with polyolefin, a thermoplastic polymer, to produce a smooth, yet highly porous printable surface that unites the absorptive capacity and flexibility of precipitated silica with the water- and chemical-resistance of plastic. The result is a proprietary substrate that is uniquely equipped to meet the specialized challenges of end users.

As a constituent in synthetic paper, the silica-polyolefin matrix enables *Teslin* substrate to offer four primary performance benefits: durability, printability, security and bonding strength. The material also has the exclusive capability among synthetic substrates to quickly absorb and lock in inks, laminating films and adhesives and to remain lightweight, flexible and thermally stable.

These characteristics make *Teslin* substrate ideal for many demanding applications, including:

- Print and laminated materials
- Tags and labels
- Laminated cards and key tags
- Radio-frequency identification (RFID) and smart cards
- Secure credentials and ID cards
- E-Passport inlay protection

To learn more about *Teslin* synthetic paper, or the broad spectrum of applications for which *Teslin* substrate is suited, [click here](#).

*Teslin* is a registered trademark of PPG Industries Ohio, Inc.

