

Industrial Films



Film Systems for Membrane
Switches, Keyboards, Fascia Panels,
Touch Screens, Optical Displays
and Printed Electronics



MacDermid Enthone
INDUSTRIAL SOLUTIONS

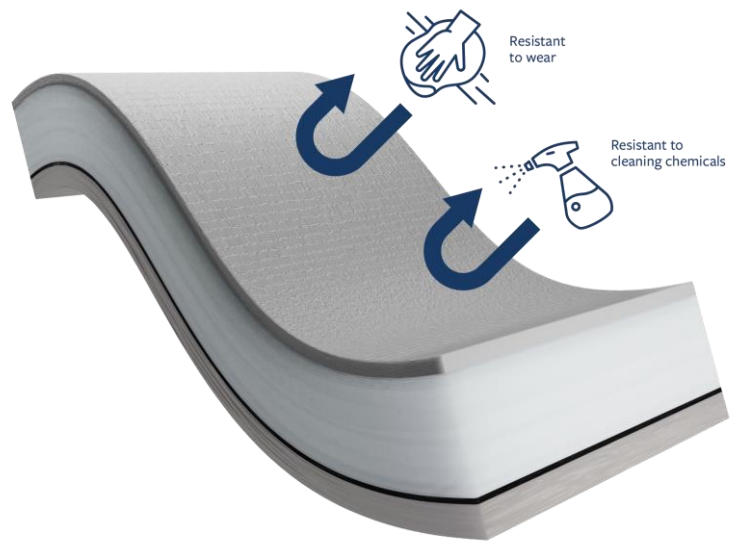


MACDERMID ENTHONE INDUSTRIAL SOLUTIONS TECHNOLOGY

MacDermid Enthone is at the forefront of film hardcoating technology and continues to embrace leading edge chemical and manufacturing technology to support its customers with innovative, high-quality film products.

The unique and proprietary hardcoating technology of MacDermid Enthone films offer an exceptional combination of durability and flexibility along with a range of stunning touch and optical properties. These properties present customers with the ideal solution to a problem found in many industries; that of presenting rich and true graphics and digital displays yet protecting them from everyday touch and cleaning.

The films are renowned for their graphics, high abrasion and chemical resistance, clear windows and switch life in excess of 5 million actuations.



The product range comprises specialty films with antimicrobial protection, resistance to UV light and humidity, antiglare, textured and gloss finishes. Most films can easily integrate windows and embossed switches and are available with a variety of primers for screen and digital printing, including UV cured inks and the HP Indigo process.

KEY APPLICATIONS

- Membrane touch switches
- Fascia panels
- Electronic displays
- Surface Protection
- Flexible Circuits
- Automotive instrument panels
- Diagnostic test strips
- Smart cards
- Mobile phone cases
- Nameplates and decals



AUTOTEX FILM RANGE

Autotex is a range of printable textured polyester films designed to offer a tough and durable but tactile surface for use on MTS overlays, fascia panels and product nameplates. **Autotex** films offer the MTS designer complete flexibility. They are extremely durable offering resistance to scratching, scuffing, chemicals and solvents and can be embossed providing extensive switch life performance. To give total design flexibility Autotex can be selectively printed with Windotex lacquer to provide transparent gloss or antiglare windows.



Autotex

Autotex is available in Fine, Velvet, Touch, Steel and Softouch finishes in a range of thicknesses and with solvent and UV ink primer options for screen and digital UV cured printing.

Autotex AM

Autotex AM offers the additional benefit of embedded Microban® antimicrobial technology, a proven and trusted system that inhibits the growth of potentially harmful bacteria, mold and mildew over the life of the film.



Autotex XE

Autotex XE has been specifically developed for outdoor use. Available in Fine and Velvet textures, it is capable of withstanding high temperatures and high humidity conditions as well as UV light.



Windotex

Windotex is a screen printable UV curable window printing lacquer available in gloss and antiglare finishes. Windotex is designed for use with **Autotex** and produces clear, attractive display windows that are both scratch and chemical resistant.



AUTOFLEX FILM RANGE

Autoflex is a range of hard coated polyester and polycarbonate films available in gloss and antiglare finishes. Both film types are screen and digital printable and receptive to Fototex texturing lacquer. **Autoflex** films are used in a wide range of products including flat panel display units, touch screens, mobile phone lens applications, smart cards, electro luminescent lamp displays and MTS. These applications require the film to be tough, durable but offer exceptional clarity and cosmetic quality. Autoflex films meet these requirements.

Autoflex EB

Autoflex EB is a hard coated polyester film range developed to offer a combination of high abrasion, chemical and solvent resistance, together with excellent optical properties and flexibility. These films can be embossed whilst offering extended switch life. Available in gloss and antiglare finishes and with solvent and UV ink primer options for screen and digital printing including UV curable inks.

Autoflex PC

Autoflex PC is a hard coated polycarbonate film range providing a high level of scratch resistance, outstanding clarity, low haze and low yellowness even in films with a thickness in excess of 500 micron. Autoflex PC is available with a gloss or antiglare finish.



Fototex

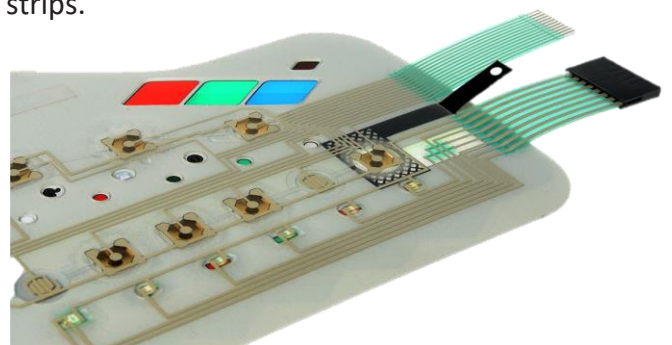
Fototex is a UV curable texturing lacquer designed for use with all Autoflex films or uncoated polycarbonate. Fototex offers a simple and cost-effective method for producing a range of surface textures. When printed on automotive dials Fototex can be used to produce flat matt, non-reflective finishes. Fototex is available in a range of finishes for conventional UV curing units or Linde type/Nitrogen curing units.

PRINT & PEEL

Print & Peel is a water based, screen printable lacquer designed to be selectively printed onto a wide range of surface finishes to act as an easily removable protective mask. Print & Peel is the alternative solution to expensive and difficult to position over laminates. It protects surfaces from scratches and scuffs during production processes and shipment.

AUTOSTAT

Autostat is a heat stabilized polyester film used for the circuitry layers in membrane touch switches, keyboards, keypads and diagnostic test strips.



Heat stabilization allows the circuit printer to cure conductive inks at high temperatures with minimal effect on the registration or the lay-flat characteristics of the film. Autostat is available in a wide range of base films, offering excellent stability and flatness with an absence of surface imperfections.

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Film Range Summary

Product	Surface Finish	Gauge (µm)
Autotex	<i>Fine, Touch, Velvet</i>	150, 200, 280
	<i>Softouch, Steel</i>	150, 200
Autotex AM	<i>Fine, Touch</i>	150, 200
Autotex XE	<i>Fine, Velvet</i>	150, 200
Windotex	<i>Gloss, Antiglare</i>	
Autoflex EB	<i>Gloss, Antiglare</i>	130, 180, 250
Autoflex PC	<i>Gloss, Antiglare</i>	180, 250, 380, 480
Fototex	<i>Matt, Supermatt</i>	
Autostat	<i>Clear, Hazy, White</i>	75, 100, 125, 175, 250, 500
Print & Peel	NA	NA



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CONTACT US

We would be delighted to hear from you!

- Data sheets
- Processing guides
- Samples
- Prices and availability

Are all available.

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