It takes more than innovation, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understand their needs and the ability to provide the right solutions – every time.

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WARNING: Nothing in this guide or in these technical specifications should be construed to imply or suggest that the user employ operations or create articles, which would infringe any patents belonging to third parties. Specifically, without limitation, using these products to form three dimensional printed or coloured products under certain conditions may infringe one or more of the following patents or their equivalent patents in other jurisdictions:


It is the customer’s responsibility to ensure that its operations, the conditions of processing, and articles of manufacture do not infringe the foregoing patents, or any third party patents. Fototex 3D is a new addition to the Fototex product family.

For further information please contact salessupport@macdermidautotype.com.
Film Insert Moulding (FIM) is a versatile and cost effective method of decorating and manufacturing plastic parts. It is an advanced form of In Mould Decoration (IMD) or In Mould Labelling (IML). The flat film is firstly reverse decorated (normally screen printed), then optionally formed, cut and finally back injection moulded.

With FIM you can easily integrate components such as lens and body into a single unit using just one piece of our formable hard coated film.

Key Benefits
Cost effectiveness and manufacturing efficiency
Integrating many components into one single part saves on tooling and assembly costs. Our hard coated films are also available with a matt base finish which improves robot handling during automated stacking and feeding operations.

Wide spectrum of decoration effects
Depending on the specific film, products can be moulded to almost any shape and depth. Use AutoForm™ for shallow parts or XtraForm™ for ultimate deep forming. These films can be decorated using a wide range of printing techniques, most commonly screen printing.

Create custom textures
Fototex 3D™ lacquers are intermixable allowing an infinite range of bespoke finishes to be produced and allow a design to now incorporate different blocks of textures on a part to create detailed fine lines or text. Fototex 3D uses a hybrid cure technology (solvent and UV) that creates an incredibly hard, abrasion and solvent resistant finish that meets the latest OEM specifications.

Extreme durability
Our unique hard coated films offer excellent hardness, abrasion and chemical resistance. The films are reverse printed thereby protecting the decoration without requiring spray painting or any other post mould process. Our films meet the specifications of the automotive, appliance and telecoms industries.

Automotive
Today’s market expects a smooth high quality finish to the surface area of car interior trim and decorative parts. At MacDermid Autotype we can deliver this with our FIM processes and XtraForm, a formable, hard coated polycarbonate film with a deep, high gloss finish. Designed to be UV cured, providing maximum formability, with scratch and chemical resistance. The durability of the surface produced makes for an attractive long lasting quality component. In addition, Fototex 3D texture varnishes offer a cost effective method of adding selective surface texture or antiglare effects to a part such as instrument clusters, HVACs, radio bezels, touch screens, touch panels, PRNDL and trims.

Telecoms
MacDermid Autotype hard coated films can be used for In Mould Labelling (IML) to create lenses, housing and keypads and even offer the possibility of integrating the housing and lens, for example outer casings for mobile phones. The films offer unrivalled pencil hardness, scratch and abrasion resistance.

Appliance
Flat or formed control panels with domed switches and lenses can be integrated into one component using MacDermid Autotype hard coated films. The scratch, abrasion and chemical resistance of the films provide superior control panel durability for demanding domestic appliance applications.
Film Insert Moulding

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The XtraForm Process

1. Screen printing
2. Forming (optional)
3. UV curing the printed sheet on the first surface
4. Cutting
5. Injection moulding

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