

## AUTOFLEX EB

Polyester film is tougher and more durable than polycarbonate and PVC films. It offers enhanced chemical resistance and dramatically improved flex life. The Autoflex range of hard coated polyester films extends the functionality of polyester film into areas demanding high abrasion resistance together with excellent receptivity to graphic inks and selective textures. Autoflex EB has been developed for applications requiring a combination of high abrasion resistance and flexibility, such as embossed membrane switches and thermoformed CRT displays.

### PRODUCT DESCRIPTION

Autoflex EB is a high quality, embossable, hard coated polyester film, consisting of a base polyester and an embossable, texturable, chemically bonded UV-cured hard surface coating. It is available in sheets and rolls, print receptive side cling film laminated as standard.

**Product range:** Autoflex EB Gloss G130, G180, G250  
Gloss finish (93% gloss level) 130, 180 and 250 micron

Autoflex EB Antiglare A130, A180, A250  
Antiglare finish (55% gloss level) 130, 180 and 250 micron

**Primer:** Autoflex EB has an ink adhesion primer on the second surface. This primer confers excellent adhesion to a wide range of solvent based graphic inks. The primer is not recommended for use with UV cured graphics inks or a combination of solvent and UV graphic inks because the adhesion performance will be inconsistent. A special primer is available for use with UV inks upon request.

**Textures:** Autoflex EB can be screen printed with Fototex to obtain selective textures (see Fototex Product Data Sheet).

### PRODUCT APPLICATIONS

Autoflex EB is used as a substrate in the following markets:

# Product Data

autotype

## Markets

Membrane switch overlays  
Touch screens  
Facia panels  
Nameplates  
Labels/Product marking

## Major Benefits

- Excellent scratch resistance
- Chemical and household cleaner resistance even at the edges
- Receptive to Fototex texturing varnishes
- Embossable
- Consistent gloss/antiglare surface
- Attractive appearance
- Superior flex life

## PRODUCT PERFORMANCE

Property	Autoflex EB	Test Method
<b>CHEMICAL</b> <input type="checkbox"/> Chemical resistance	Resistant to: Alcohols Dilute acids Dilute alkalis Esters Hydrocarbons Ketones Household cleaning agents	DIN 42 115
<b>MECHANICAL</b> <input type="checkbox"/> Switch life <input type="checkbox"/> MIT fold durability	>5 million flexes >20,000 folds transverse direction	Autotype Method <sup>1</sup> ASTM D2176
<b>OPTICAL</b> <input type="checkbox"/> Gloss level	Gloss 93% Antiglare 55%	ASTM D2457-70 <sup>2</sup>
<b>PHYSICAL</b> <input type="checkbox"/> Abrasion resistance <input type="checkbox"/> Pencil hardness	<5% haze - 100 cycles, CS10F wheel, 500g (gloss finish only) 3H	ASTM D1044-82 <sup>2</sup> Autotype Method <sup>1</sup>
<b>THERMAL</b> <input type="checkbox"/> Dimensional stability	0.3% maximum shrinkage at 120°C	Autotype Method <sup>1</sup>

Autoflex polyester films have limited long term resistance to UV light and therefore are not recommended for prolonged use outdoors (see Autotex UV).

<sup>1</sup> See Test Method Manual

<sup>2</sup> Adapted to Autotype Method. See Test Method Manual (contained in the Technical Manual)

## **WORKING INSTRUCTIONS**

See Technical Manual for comprehensive printing, cutting and embossing recommendations.

## **HAZARDS**

None associated with this product.

## **WARNINGS**

None associated with this product.

## **FIRE PRECAUTIONS**

Polyester films will burn with difficulty. Extinguisher method recommended - foam or water.

## **FIRST AID**

No chemical related injury is anticipated from the use of this product.

## **ENVIRONMENTAL**

EC Regulation 594/91 classifies ozone depleting substances into a number of different groups, I-VI. Autotex does NOT contain any substance classified in groups I-VI nor have any of the substances been used by Autotype during manufacture.

For details of the content of each of the groups, please see separate Ozone Depleting Substances Document.

## **DISPOSAL**

The range of products comprises films with a chemically treated surface which renders them difficult to recycle in normal PET recovery schemes. The product contains no substances listed on the EC Black or Grey lists and may be safely disposed of in a landfill or by authorised incineration.

# Product Data

autotype

The information and recommendations in this publication are believed to be accurate and are offered in good faith but do not constitute specifications. Suggestions concerning uses and applications are only the opinion of Autotype International Limited and users should carry out their own testing procedures to confirm suitability for their purposes. Except in the case of death or personal injury caused by the materials, Autotype International Limited MAKES NO WARRANTY OF ANY KIND AND EXCLUDES ANY STATUTORY WARRANTY EXPRESS OR IMPLIED other than that materials conform to their current applicable standard specification. Statements herein therefore should not be construed as guarantees of satisfactory quality or fitness for purpose. The responsibility of Autotype International Limited for claims arising out of breach of guarantee, negligence, strict liability or otherwise is limited to the purchase price of the material.

Suggestions concerning working practices and procedures are based on the practices adopted by existing users of the products and are made in good faith. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT ALL RELEVANT HEALTH AND SAFETY LAWS AND REGULATIONS ARE COMPLIED WITH. Autotype International Limited does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations.

Statements concerning the use of products described herein should not be construed as recommending the infringement of any patent and no liability for infringement arising out of such use is assumed.

DECEMBER 2001

**Autotype  
International Limited**

Grove Road, Wantage,  
Oxon OX12 7BZ UK  
Tel +44 (1235) 771111  
Fax +44 (1235) 771196  
Emergency +44 (1235) 773163

**Autotype  
Americas, Inc.**

2050 Hammond Drive  
Schaumburg, Illinois 60173  
Tel +1 847 303 3900  
Fax +1 847 303 5225

**Autotype  
International (Asia) Pte. Ltd.**

20 Loyang Lane  
Singapore 508919  
Tel +65 542 9998  
Fax +65 542 9991

[www.autotype.com](http://www.autotype.com)