

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:

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

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

¹ See Test Method Manual

² Adapted to Autotype Method. See Test Method Manual (contained in the Technical Manual)

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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.

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