

# AUTOFLEX EB XM

## Product Data Sheet

Hardcoated Polyester Film

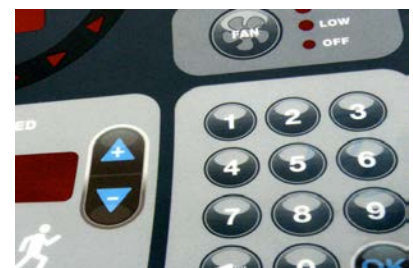


### DESCRIPTION

**Autoflex EBG XM** and **EBA XM** are hardcoated polyester\* films, in gloss and antiglare finishes.

The products are variants of Autoflex EB offering superior cosmetics - suitable for metallisation. The product consists of a high-quality base polyester and an embossable, texturable, chemically bonded UV-cured hard surface coating in gloss finish

**Autoflex EB XM** is available in sheets and rolls.



### PRODUCT RANGE

Product	Finish	Version
Autoflex EB XM with 0-series ink primer for solvent based screen printing inks	Gloss	EBG180L XM
	Antiglare	EBA180L XM

### PRIMER

**Autoflex EB XM** has an ink adhesion primer on the second surface:

The standard 0-series ink-receptive coating for solvent based screen printing inks. The primer has also been used successfully with some digital UV inkjet printers. Please contact MacDermid Autotype for more information.



## LAMINATE

Polyester films with high gloss surfaces are prone to blocking when stored with the film surfaces touching each other. Blocking is the term given when two surfaces adhere or merge into each other and when separated leave permanent marks on the film. MacDermid Autotype supply the **Autoflex EB XM** film range with a protective laminate on the ink primer surface and recommend that the laminate remains in place until the first ink print pass.

## TEXTURES

**Autoflex EB XM** can be screen printed on the hardcoat surface with Fototex to obtain selective textures (see Fototex Product Data Sheet).

## TYPICAL PROPERTIES

Property	Autoflex EB XM	Test Method
Haze <sup>1</sup> Gloss Antiglare	< 2% 9.8% ±3%	ASTM D1003
Total luminous transmission <sup>1</sup>	91% ± 2%	ASTM D1003
Gloss level (60°) <sup>1</sup> Gloss Antiglare	96 ± 2 GU 50 ± 5 GU	ASTM D2457 (modified to test method 022)
Yellowness index <sup>3</sup>	< 3.5	ASTM E313
Taber abrasion <sup>1</sup> Gloss Antiglare	< 5% N/A	Test method 103
Hardcoat Adhesion <sup>3</sup>	Pass	Test method 080
Switch life <sup>1</sup>	>5 million actuations	Test method 003
Pencil hardness <sup>1,4</sup>	2 - 3H	Test method 058
Tensile strength at break <sup>2</sup>	137 – 167 MPa	JIS C-2318
Dimensional stability <sup>3</sup>	0.2% @ 120° MD max shrinkage	Test method 094
Thicknesses <sup>2</sup>	Nominal ± 10%	
Maximum processing temp	120°C	-
Maximum use temp <sup>1</sup>	Low humidity (<10%RH) 85°C	Test method 012
	High humidity (10-95%RH) 60°C	
Minimum use temp <sup>1</sup>	-40°C (-40°F)	Test method 012
Chemical resistance <sup>1</sup>	Alcohols Esters Hydrocarbons Dilute Acids and Alkalis Household Cleaning agents	23 °C / 24 hour spot test
	Ketones <sup>3</sup>	23 °C / 1 hour spot test



<sup>1</sup>For details of test method, please contact MacDermid Autotype

<sup>2</sup>Data derived from base film manufacturer's literature

<sup>3</sup>Specification value

<sup>4</sup>For more information, please refer to MacDermid Autotype statement on pencil hardness testing

\* The term polyester is the generic term for a number of different polymers, of which polyethylene terephthalate (PET) is the most common. PET is used in MacDermid Autotype High Performance Film Systems polyester film products.

Note – performance characteristics may be subject to change.

## CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype

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