

AUTOTEX XE

Product Data Sheet

Hardcoated Polyester Film for Extreme Environments



DESCRIPTION

Autotex XE has been developed for applications such as instrument, fascia and membrane switch panels and durable labels that are used where high or widely fluctuating temperatures, excessive humidity and strong levels of ultraviolet light are encountered.

Autotex XE is available in sheets and rolls.

* 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 products.



PRODUCT RANGE

Products	Finish	Gauge	
		150µm	200µm
Autotex XE with 0-series ink primer for solvent based screen printing inks	Fine	XE F150	XE F200
	Velvet	XE V150	XE V200
Autotex XE with 7-series ink primer for UV screen printing inks and solvent based screen printing inks	Fine	-	XE F207
	Velvet	XE V157	XE V207

PRIMER

Autotex XE has an ink adhesion primer on the second surface. Two versions are available:

The standard or 0-series primer is 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.

The 7-series primer offers excellent adhesion to a wide range of solvent based screen printing inks and UV screen printing inks.



WINDOWS

Windotex is not a UV resistant product and is therefore not recommended for prolonged use outdoors. Due to the stabilising chemistry used in **Autotex XE**, the adhesion of Windotex to the surface may be impaired. Contact MacDermid Autotype for further information.

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Haze ¹		ASTM D1003
Fine	58% ±5%	
Velvet	71% ±5%	
Total luminous transmission ¹	92% ±2%	ASTM D1003
Gloss level (60°) ¹		ASTM D2457 (modified to test method 022)
Fine	7 ±1.5 Gloss Units	
Velvet	4.5 ±1 Gloss Units	
Yellowness index ³	<5	ASTM E313
UV absorption (370nm) ³	2.5-3.6	Test method 106
Hardcoat adhesion ³	Pass	Test method 080
Switch life ¹	>5 million actuations	Test method 003
Tensile strength at break ²	172-190 N/mm ²	ASTM D882
Breakdown voltage ²		ASTM D149
150µm	16 - 18 kV	
200µm	18 - 20 kV	
Dimensional stability ³	0.2% max shrinkage MD at 120°C	Test method 094
Thickness all grades ¹	Nominal ±10%	Test method 096
Maximum processing temperature	120°C	
Maximum use temperature ¹	Low humidity (<10%RH) 85°C	Test method 012
	High humidity (85%RH) 85°C	
Minimum use temperature ¹	-40°C (-40°F)	Test method 012
Chemical resistance	Please see Autotex XE Solvent Resistance Data Sheets	
Outdoor resistance	Please see Autotex XE Environmental Data Sheets	

¹ For details of test method, please contact MacDermid Autotype

² Data derived from base film manufacturer's literature. The coating slightly enhances most properties

³ Specification value



CONTACT INFORMATION

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

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