

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.



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 Fine Velvet	58% ±5% 71% ±5%	ASTM D1003
Total luminous transmission ¹	92% ±2%	ASTM D1003
Gloss level (60°) ¹ Fine Velvet	7 ±1.5 Gloss Units 4.5 ±1 Gloss Units	ASTM D2457 (modified to test method 022)
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 150µm 200µm	16 - 18 kV 18 - 20 kV	ASTM D149
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	Excellent resistance to many common industrial solvents and household chemicals - please see Autotex XE Solvent Resistance Data Sheet	
Outdoor resistance	Please see Autotex XE Environmental Data Sheets	

¹For details of test method, please contact MacDermid Autotype

²Data derived from base film manufacturer's literature.

³Specification value



The term polyester is the generic term for several 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

macdermid.com/autotype

North America	Europe	Asia
MacDermid Autotype Inc. 245 Freight Street Waterbury, CT 06702, USA (800) 323 0632 autotypeusinfo@macdermid.com	MacDermid Autotype Ltd. Grove Road, Wantage, Oxon OX12 7BZ, UK +44 (0) 1235 771111 salessupport@macdermidautotype.com	MacDermid Autotype Pte Ltd. 14 Joo Koon Crescent, Singapore, 629014 +65 643 00701 autotype-asia@macdermid.com

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 MacDermid Autotype 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, MacDermid Autotype 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 MacDermid Autotype 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. MacDermid Autotype 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.