



Autotex XE – Product Data Sheet

Hardcoated Polyester Film for Extreme Environments

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 Industrial Polyester film products.

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

Primer:

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

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

The 7-series primer offers excellent adhesion to a wide range of solvent screen printing and UV screen printing graphic 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 for further information.

TYPICAL PROPERTIES		
Property	Autotex XE	Test Method
Haze Fine Velvet	58% \pm 5% 71% \pm 5%	ASTM D1003 ¹
Total luminous transmission	92% \pm 2%	ASTM D1003 ¹
Gloss Level (60°) Fine Velvet	7 \pm 1.5 4.5 \pm 1	ASTM D2457 ¹
Yellowness index	<5	ASTM E313 ¹
UV absorption (370nm)	2.5-3.6	MacDermid Method
Switch life	>5 million flexes	MacDermid Method
Pencil Hardness ²	F - H	JIS K5600 Derwent Pencils
Tensile strength at break ³	172 – 190 N/mm ²	ASTM D882
Breakdown Voltage ³ 150 μ 200 μ	16 - 18 kV 18 – 20 kV	ASTM D149 6.35mm electrodes in dry air @ 25 °C
Dimensional stability	<0.2% MD at 120 °C maximum shrinkage	MacDermid Method
Thicknesses – all grades	\pm 10%	MacDermid Method
Maximum processing temperature	120 °C	
Maximum use temperature	Low humidity (<10%RH) 85 °C High humidity (85%RH) 85 °C	MacDermid Method
Minimum use temperature	-40 °C (-40 °F)	MacDermid Method
Chemical Resistance	Please see Autotex XE Solvent Resistance Data Sheet	
Outdoor resistance	Please see Autotex XE Environmental Data Sheet	

¹ Test method adapted to MacDermid Method² For more information, please refer to MacDermid statement on pencil hardness testing³ Data derived from base film manufacturer's literature. The coating slightly enhances most properties**For further information please contact salesupport@macdermidautotype.com****IMDS ID-No 138955897**

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.

Autotype®, Autotex®, Autoflex®, Autostat™, Windotex™, Fototex™ and Print and Peel™ are registered trademarks of MacDermid Autotype Ltd. ©2016 MacDermid Autotype Ltd. All rights reserved.

MacDermid
Autotype
A Platform Specialty Products company

MacDermid Autotype Ltd
Grove Road, Wantage, Oxon OX12 7BZ, UK
Tel: +44 (0) 1235 771111 Fax: +44 (0) 1235 771196

MacDermid Autotype Inc.
1675 Winnetka Circle
Rolling Meadows, IL 60008, USA
Tel: +1 847-818-8262 Fax: +1 847-818-8280
Toll Free 800-323-0632

MacDermid Autotype Pte Ltd
No. 20 Tuas Avenue 6, Singapore 639307
Tel: +65 689 79670 Fax: +65 686 31025

www.macdermidautotype.com