

AUTOTEX XE

Product Data Sheet

Hardcoated Polyester Film for Extreme Environments



PRODUCT 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

Product	Finish	Gauge		
		150 μm	200 μm	280 μm
Autotex XE with 0-series ink primer for solvent based screen printing inks and UV cured digital	Fine	XE F150	XE F200	-
	Velvet	XE V150	XE V200	XE V280
Autotex XE with 3-series ink primer for UV cured inkjet, UV cured screen printing and solvent based screen printing inks	Fine	XE F153	XE F203	-
	Velvet	XE V153	XE V203	XE V283
Autotex XE with 7-series ink primer for UV cured screen printing inks and solvent based screen printing inks	Fine	-	XE F207	-
	Velvet	XE V157	XE V207	-



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 GU 4.5 ± 1 GU	ASTM D2457 (modified to test method 022)
Yellowness index ³	< 5	ASTM E313
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 ² 150 µm 200 µm 280 µm	16 - 18 kV 18 - 20 kV 21 – 23 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
Maximum use temperature ¹	High humidity (85% RH) 85 °C	Test method 012
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	

Note: All evaluation results are obtained from lab produced samples at MacDermid Enthone Industrial Solutions. They are for general guidance only and do not represent the final product's properties.

¹For details of test method, please contact MacDermid Enthone Industrial Solutions

²Data derived from base film manufacturer's literature

³Specification value



PRIMER

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

The standard or 0-series primer is for use with solvent based screen printing inks and has been used successfully with some digital UV curable inkjet inks.

The 3-series primer is for use with UV curable inkjet inks, solvent based screen printing inks and UV screen printing inks.

The 7-series primer is for use with UV curable screen printing inks and solvent based 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 Enthone Industrial Solutions for further information.

SHELF LIFE & STORAGE CONDITIONS

Shelf life of **Autotex XE** is 36 months from date of manufacture when stored in cool, dry conditions in the original packaging. Once processed this shelf life does not apply. Finished parts can last many years.

The following storage conditions are recommended:

Storage Conditions	
Temperature	15 °C to 25 °C
Relative Humidity	50 to 65%
Packaging	Store in original protective packaging Once the packaging has been opened, the processing lifetime can be compromised due to air ingress, contamination or UV light
Chemicals	Keep away from aggressive solvents
Stacking	For material $\leq 250 \mu\text{m}$ thick, 100 sheet packs should be stacked no more than 10 packs high

IMDS ID-No

By arrangement with our regulatory affairs team.



SAFETY & WARNING

MacDermid Enthone Industrial Solutions recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available from MacDermid Enthone Industrial Solutions.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Enthone Industrial Solutions for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

CONTACT INFORMATION

To confirm this is the most recent issue, please contact us:

IndustrailFilms@macdermidenthone.com

Americas 245 Freight Street Waterbury, CT 06702, USA (800) 323 0632	Europe & rest of the world Grove Road, Wantage, Oxon OX12 7BZ, UK +44 (0) 1235 771111	Asia 26 Tuas West Road Singapore 638382 +65 6862 3327
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Website: industrial.macdermidenthone.com

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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 does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations.

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