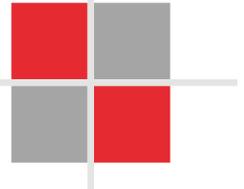


AUTOTEX

Product Data Sheet

Textured Hardcoated Polyester Film



PRODUCT DESCRIPTION

Autotex is a high quality textured polyester* film, developed for applications requiring a combination of high abrasion resistance and flexibility such as embossed membrane switches.

Autotex is available in sheets and rolls.



*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 Enthone Industrial Solutions polyester film products.

PRODUCT RANGE

Product	Base	Gauge		
		150 µm	200 µm	280 µm
Autotex with 0-series ink primer for solvent based screen printing inks	Touch	T150	T200	T280
	Fine	F150	F200	F280
	Velvet	V150	V200	V280
Autotex with 3-series ink primer for UV cured inkjet, UV cured screen printing and solvent based screen printing inks	Touch	T153	T203	T283
	Fine	F153	F203	F283
	Velvet	V153	V203	V283
Autotex with 7-series ink primer for UV screen printing inks and solvent based screen printing inks	Touch	T157	T207	-
	Fine	F157	F207	-
	Velvet	V157	V207	-



TYPICAL PROPERTIES

Property	Typical Value	Test Method
Haze ¹ Touch Fine Velvet	61% ± 4% 58% ± 5% 71% ± 5%	ASTM D1003
Total luminous transmission ¹	92% ± 2%	ASTM D1003
Gloss level (60°) ¹ Touch Fine Velvet	6 ± 1 GU 7 ± 1.5 GU 4.5 ± 1 GU	ASTM D2457 (Modified to test method 022)
Yellowness index ³	< 3	ASTM E313
Switch life ¹	> 5 million actuations	Test method 003
Tensile strength at break ²	172 - 190 N / mm ²	ASTM D882
Breakdown voltage ^{2,4} 150 µm 200 µm 280 µm	16 - 18 kV 18 - 20 kV 22 kV	ASTM D149
Dimensional stability ³	0.2% maximum shrinkage MD at 120 °C	Test method 094
Thickness all grades ¹	Nominal ± 10%	Test method 096
Maximum processing temp.	120 °C	-
Maximum use temperature ¹	Low humidity (< 10% RH) 85 °C	Test method 012
	High humidity (10-95% RH) < 60 °C	
Minimum use temperature ¹	-40 °C (-40 °F)	ASTM D1003
Chemical Resistance	Excellent resistance to many common industrial solvents and household chemicals - please see Autotex Solvent Resistance Data Sheet	

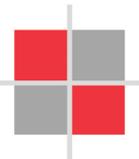
Note: All evaluation results are obtained from lab produced samples at MacDermid Enthone Industrial Solutions. They are for general guidance only and do not represent the final product's properties.

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

²Data derived from base film manufacturer's literature

³Specification value

⁴Thick PET, including 250 µm films, typically melts at high applied voltages



PRIMER

Autotex has an ink adhesion primer on the second surface. Three 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 Enthone Industrial Solutions for more information.

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 offers excellent adhesion to a wide range of solvent based screen printing inks and UV screen printing ink.

WINDOWS

Autotex can be screen printed with Windotex windowing lacquers to obtain a clear window. Printing guidelines are available in the Windotex Processing and Safety Recommendations. Due to its lighter texture, **Autotex Fine** will produce clearer windows than **Autotex Velvet**.

SHELF LIFE & STORAGE CONDITIONS

The recommended shelf life is 36 months from date of manufacture. MacDermid Enthone Industrial Solutions guarantee a minimum remaining shelf life of 8 weeks at the time of despatch.

The recommended shelf life represents the maximum processing life time of the product from the date of manufacture when stored correctly and in unopened packaging.

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
Moisture	Store away from water sources
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:

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