

AUTOTEX DP

Product Data Sheet

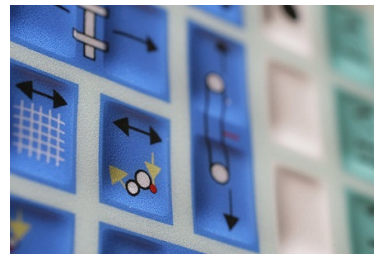
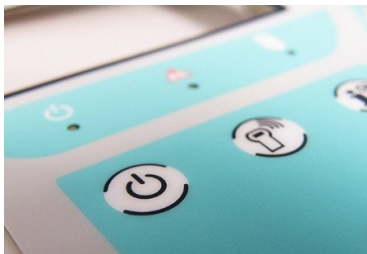
Textured Hardcoat Polyester Film



DESCRIPTION

Autotex DP is a high quality hardcoated polyester* film with a flexible, chemically bonded, UV-cured textured coating.

Autotex DP has been developed to be compatible with the Hewlett Packard Indigo digital printing system.



PRODUCT RANGE

Products	Finish	Gauge		
		150 µm	200 µm	280 µm
Autotex DP with primer for HP Indigo digital print units	Fine	F150 DP	F200 DP F200 XE DP	-
	Velvet	V150 DP	V200 DP V200 XE DP	V280 DP
	Softouch		ST200 DP	

PRIMER

Autotex DP has an ink adhesion primer on the second surface. This primer confers excellent ink adhesion with Hewlett Packard Indigo Digital printing presses (S2000, WS2000, WS4050, 5600 and WS6800).





BACKING INKS

A white backing can be screen printed over the image. Recommended white UV screen printing inks are listed below. Processing guidelines can be obtained from the ink manufacturer.

Recommended white UV screen printing inks	
Nor-Cote NBW	Nazdar 3478
Nor-Cote PTX-1046	Nazdar 3498
Proell NoriCure® AP 944	Nazdar NSC44

LAMINATE

MacDermid Enthone Industrial Solutions supply the **Autotex DP** film range with a protective laminate on the ink primer surface and recommend that the laminate remains in place until the first ink print pass.

WINDOWS

The **Autotex DP** texture can be screen printed with Windotex windowing lacquers to obtain a clear window. Printing guidelines are available in the Windotex Processing and Safety Recommendations. Nor-Cote® MSK Lens Clear can be applied to the second surface to obtain additional clarity

OUTDOOR USE

Also available, **Autotex XE DP** has been developed for applications where high or widely fluctuating temperatures, excessive humidity and strong levels of ultraviolet light are encountered.



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	< 3	ASTM E313
Switch life ¹	> 5 million actuations	Test method 003
Hardcoat adhesion ³	Pass	Test method 080
UV absorption (370 nm) ³	2.5-3.6	Test method 106
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
Max. processing temperature	120 °C	-
Maximum use temperature ¹	Low humidity (< 10% RH) 85 °C High humidity (10-95% RH) 60 °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 refer to Autotex and Autotex XE Solvent Resistance Data Sheets	

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

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

³ Specification value

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

* 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 Enthone Industrial Solutions polyester film products

Note – performance characteristics may be subject to change

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

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