AUTOTEX

Product Data Sheet

Textured Hardcoat Polyester Film

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 a number of different polymers, of which polyethylene terephthalate (PET) is the most common. PET is used in MacDermid Autotype High Performance Film Systems polyester products.

PRODUCT RANGE

Product	Finish	Gauge		
		150µm	200µm	280µm
Autotex with 0-series ink primer for solvent based screen printing inks	Fine	F150	F200	F280
	Velvet	V150	V200	V280
Autotex with 7-series ink primer for UV screen printing inks and solvent based screen printing inks	Fine	F157	F207	-
	Velvet	V157	V207	-

PRIMER

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

The standard 0-series ink-receptive coating 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

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**.

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]	<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] 150µm 200µm 280µm	 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 High humidity	 (<10%RH) 85°C (10-95%RH) <60°C	Test method 012
Minimum use temperature[1]	-40°C (-40°F)	Test method 012
Chemical Resistance	Please see **Autotex** Solvent Resistance Data Sheets	

[1]Test method adapted to MacDermid Autotype method
[2] Data derived from base film manufacturer's literature. The coating slightly enhances most properties
[3] Specification value
[4] Thick PET, including 250µm films, typically melts at high applied voltages

CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype

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