



Autotex – Product Data Sheet

Textured Hardcoat Polyester Film

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 Industrial Polyester film products.

Autotex Version	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 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	Autotex	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 4.5 ±1	ASTM D2457
Yellowness index ¹		<3	ASTM E313
Switch life		>5 million actuations	MacDermid Method
Tensile strength at break ²		172-190 N/mm ²	ASTM D882
Breakdown voltage ^{2,3}	150µm 200µm 280µm	16 – 18 kV 18 - 20 kV 22 kV	ASTM D149
Dimensional stability ¹		0.2% maximum shrinkage MD at 120°C	MacDermid Method
Thickness		Nominal ±10%	MacDermid Method
Maximum processing temp.		120°C	
Maximum use temp. ¹		Low humidity (<10%RH) 85°C High humidity (10-95%RH) <60°C	MacDermid Method
Minimum use temp. ¹		-40°C (-40°F)	MacDermid Method
Chemical resistance	Resistant to: Alcohols Dilute Acids Dilute Alkalis Esters Hydrocarbons Ketones Household Cleaning Agents ¹	DIN 42 115 Please refer to Autotex solvent resistance chart	

¹ Test method adapted to MacDermid Method

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

³ Thick PET, including 250µm films, typically melts at high applied voltages

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