

AUTOSTAT WT

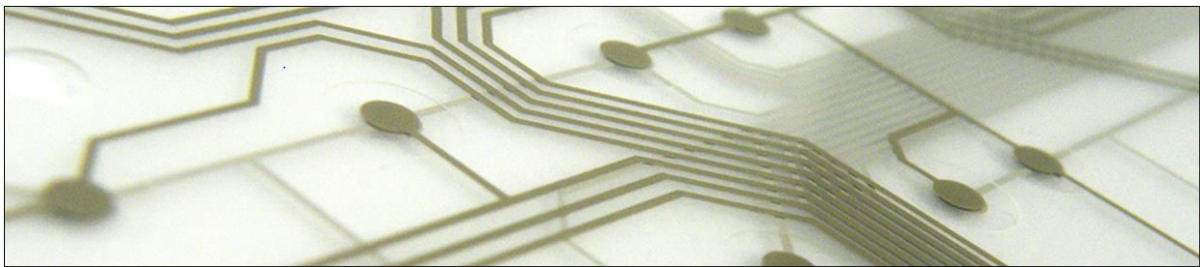
White Pre-primed Polyester Film with Low Residual Heat Shrinkage

PRODUCT DESCRIPTION

The **Autostat** range of polyester* films are heat stabilised to give low residual shrinkage at elevated temperatures. This is essential when tight registration tolerances need to be maintained during multiple printing operations.

Autostat WT is a high-quality, opaque white heat stabilised polyester film, with an ink primer coating on both sides. It is available in sheets and rolls, with tight dimension and squareness tolerance, and excellent lay flat for accurate print registration.

Applications include flexible circuitry, membrane switch circuitry, flexible flat cables, sensors, and RFID antennae.



* 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 polyester products.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT RANGE

Product	Gauge	Version
Autostat WT – opaque white, pre-primed polyester film with low residual shrinkage at elevated temperatures	75 µm	WT3
	125 µm	WT5

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Whiteness (Berger) ¹	110 to 120	ASTM E313
Gloss level ¹	45 to 50 GU	ASTM D2457 DIN 67530
Total Luminous Transmission (TLT) ¹	7 to 13%	ASTM D1003
Tensile strength ¹	150 to 190 N / mm ²	ASTM D882 ISO 527
Dielectric constant ¹ WT3 WT5	3.3 2.6	ASTM D150
Dimensional stability ^{2,3} (Thickness ≤ 75 µm)	MD ± 0.5% max @ 150 °C / 30 min TD ± 0.1% max @ 150 °C / 30 min	Test method 094
Dimensional stability ^{2,3} (Thickness ≥ 125 µm)	MD ± 0.2% max @ 150 °C / 30 min TD ± 0.08% max @ 150 °C / 30 min	
Thickness all grades ²	± 5% of gauge to nearest whole µm	Test method PLAWP 003
Recommended maximum processing temp.	150 °C	Test method 012
Chemical resistance	Chemical resistance of polyester is generally good but has not been extensively tested for circuitry applications	

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

¹ Data derived from base film manufacturer's literature

² Specification value

³ For details of test method, please contact MacDermid Alpha Electronics Solutions

PRIMER

Autostat WT has an ink adhesion primer on both surfaces.

The primer offers excellent adhesion to a wide range of solvent and UV inks, particularly conductive and dielectric inks, but it is recommended that the customer verifies that the adhesion of their own ink is fit for purpose.

SHELF LIFE & STORAGE CONDITIONS

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

The recommended shelf life represents the maximum processing lifetime 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 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

IMDS ID-No

By arrangement with our regulatory affairs team.

SAFETY & WARNING

It is recommended 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.

WASTE TREATMENT

Prior to using any recommendations or suggestions 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 document is the most recent version, please contact

techinfo@MacDermidAlpha.com

www.macdermidalpha.com

<p>North America 245 Freight Street Waterbury, CT 06702, USA +1 203 575 5700</p>	<p>Europe Grove Road, Wantage OX12 7BZ, United Kingdom +44 1235 771111</p>	<p>Asia 26 Tuas West Road Singapore, 638382 +65 6862 3327</p>
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US +1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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