AUTOSTAT WT

Product Data Sheet

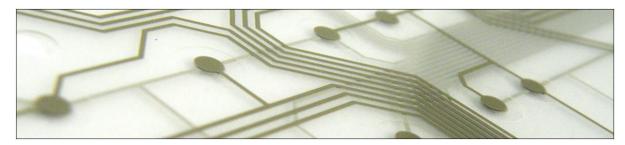
White, pre-primed polyester film with low residual heat shrinkage



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 thicker versions are typically used for biomedical diagnostic strips for personal, near-patient and point-of-care testing.



PRODUCT RANGE

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

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.

^{*}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 products.





TYPICAL PROPERTIES

Property	Typical Value	Test Method	
Whiteness (Berger) ¹	110 – 120	ASTM E313	
Gloss level ¹	45 – 50 Gloss Units	ASTM D2457 DIN 67530	
Total Luminous Transmission (TLT) ¹	8 - 13%	ASTM D1003	
Tensile strength ¹	150 – 190 N/mm²	ASTM D882 ISO 527	
Dielectric constant ¹ WT3 WT5	3.3 2.6	ASTM D150	
Dimensional stability ^{2,3} (Thickness ≤75µm)	MD ± 0.5% max @ 150°C/30 minutes TD ± 0.1% max @ 150°C/30 minutes	Test method 094	
Dimensional stability ^{2,3} (Thickness ≥125µm)	MD ± 0.2% max @ 150°C/30 minutes TD ± 0.08% max @ 150°C/30 minutes		
Thickness all grades ¹	Nominal ±5%	Test method 096	
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		

¹ Data derived from base film manufacturer's literature

Note – Performance characteristics may be subject to change



² Specification value

³ For details of test method, please contact MacDermid Autotype



SAFETY & WARNING

MacDermid Autotype 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 Autotype.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Autotype for waste treatment, the user is required to know the appropriate local/state/federal regulations for onsite 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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