

AUTOSTAT CT

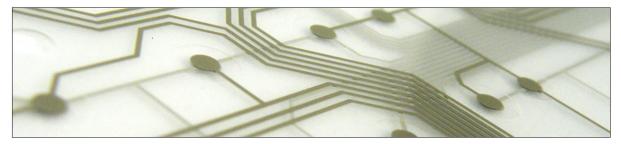
Pre-primed Polyester Film with Low Residual Heat Shrinkage

PRODUCT DESCRIPTION

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

Autostat CT is a high quality clear, heat stabilized polyester film, pre-primed on both sides, and is available in sheets and rolls with tight dimensions and squareness tolerance.

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 polyester products.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT RANGE

Product	Gauge	Version
Autostat CT – clear, pre-primed polyester film with low residual shrinkage at elevated temperatures	75 µm	CT3
	100 μm	CT4
	125 µm	CT5
	175 μm	CT7



TECHNICAL DATA SHEET

TYPICAL PROPERTIES

Property	Typical Value	Test Method	
Haze ¹	< 2%	ASTM D1003	
Switch Life ³	> 5 million actuations	Test Method 003	
Tensile Strength at Break ¹	172 N / mm ²	ASTM D882	
Breakdown Voltage ¹	17 to 21 kV	ASTM D149	
Dimensional Stability ^{2,3} (Thickness ≥100µm)	MD ± 0.2% max @ 150 °C / 30 min TD ± 0.08% max @ 150 °C / 30 min	Test Method 094	
Dimensional Stability ^{2,3} (Thickness ≤75µm)	MD ± 0.5% max @ 150 °C / 30 min TD ± 0.1% 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.

PRIMER

Autostat CT has an ink adhesion primer on both surfaces.

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

¹ Data derived from base film manufacturer's literature

² Specification value

³ For details of the test method, please contact us



TECHNICAL DATA SHEET

SHELF LIFE & STORAGE CONDITIONS

The recommended shelf life is 36 months from the date of manufacture. MacDermid Alpha Electronics Solutions guarantees 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.



TECHNICAL DATA SHEET

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

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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, Brazii 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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