

AUTOSTAT CUS

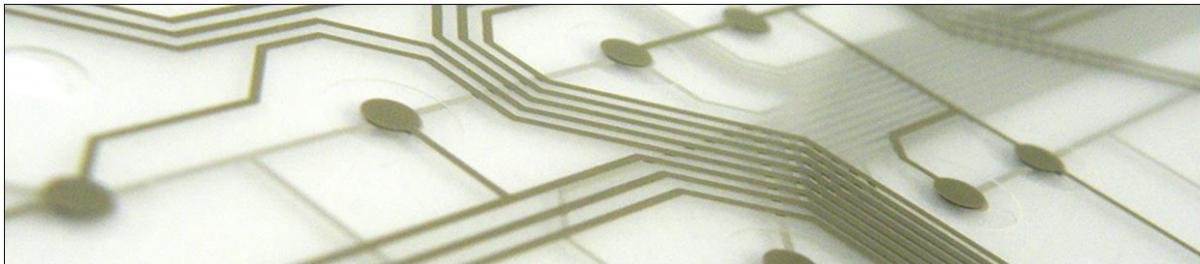
Clear, Slip Treated Polyester Film with Low Residual Heat Shrinkage

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 CUS is a high-quality, clear, heat-stabilized polyester film, with a slip treatment on both sides for excellent film handling characteristics. 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 polyester products.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

PRODUCT RANGE

Product	Gauge	Version
Autostat CUS – clear polyester film with low residual shrinkage at elevated temperatures	125 µm	CUS5

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Haze ¹	1.6%	ASTM D1003
Tensile strength at break ¹	200 N / mm ²	ASTM D882
Elongation at break ¹	142%	ASTM D882
Roughness (Ra) ¹	9 nm	DIN 4768
Dimensional stability ^{2,3}	MD ± 0.2% max @ 150 °C / 30 min TD ± 0.08% max @ 150 °C / 30 min	Test Method 094
Thickness all grades ²	± 5% of 125µm 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 the test method, please contact MacDermid Alpha Electronics Solutions

PRIMER

Autostat CUS is slip-treated only.

Please select inks designed for use with non-primed polyester.

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.

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

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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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