AUTOSTAT CUS

Product Data Sheet

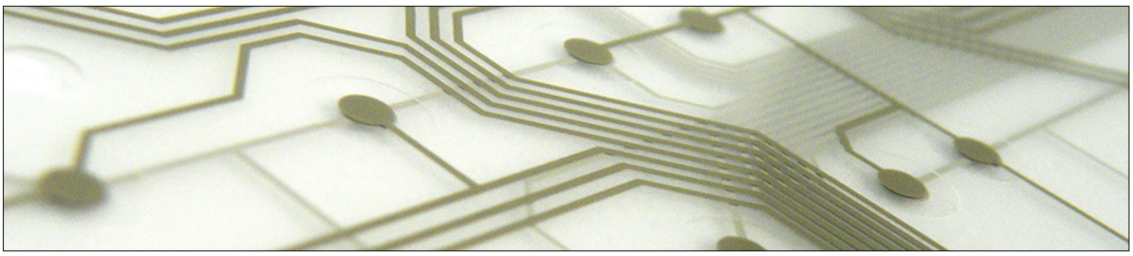
Clear, Slip Treated Polyester Film with Low Residual Heat Shrinkage

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 CUS is a high quality, clear, heat stabilised 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 MacDermid Enthone Industrial Solutions polyester products.

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 ℃ / 30 min TD ± 0.08% max @ 150 ℃ / 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 ºC	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 Enthone Industrial 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 Enthone Industrial 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 date of manufacture. MacDermid Enthone Industrial Solutions guarantee a minimum remaining shelf life of 8 weeks at the time of despatch.

The recommeded shelf life represents the maximum processing life time 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 ℃
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

MacDermid Enthone Industrial Solutions 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 Enthone Industrial Solutions.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Enthone Industrial Solutions 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 is the most recent issue, please contact us:
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