

AUTOSTAT AHU

Product Data Sheet

Hazy, non-primed polyester film with low residual heat shrinkage

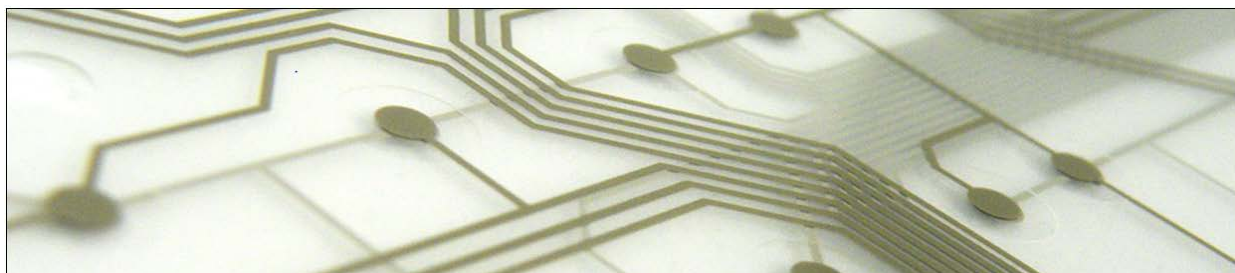


DESCRIPTION

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 AHU is a high quality hazy heat stabilised polyester film, with excellent surface slip properties for excellent sheet handling, and is available in sheets and rolls with tight dimension and squareness tolerance.

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



PRODUCT RANGE

Product	Gauge	Version
Autostat AHU – hazy polyester film with low residual shrinkage at elevated temperatures	75 µm	AHU3
	100 µm	AHU4
	125 µm	AHU5
	175 µm	AHU7
	250 µm	AHU10

PRIMER

Autostat AHU is non-primed polyester.

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



TYPICAL PROPERTIES

Property	Typical Value	Test Method
Haze ¹	50 – 100%	ASTM D1003
Tensile strength at break ¹	150 - 160 N/mm ²	ASTM D882
Breakdown Voltage ¹ AHU3 AHU4 AHU5 AHU7 AHU10	10 kV 11.75 kV 13.5 kV 17.5 kV 19.0 kV	ASTM D149
Dimensional stability ^{2,3} (Thickness ≤75µm)	MD ± 0.5% max @ 150°C/30minutes 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/30minutes	
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 Autotype

² Specification value

³ For details of test method, please contact MacDermid

* The term polyester is the generic term for a number of different polymers, of which polyethylene terephthalate (PET) is the most common. PET is used in MacDermid Autotype High Performance Film Systems polyester products.

Note – Performance characteristics may be subject to change



CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype

www.macdermid.com/autotype

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