

Autostat WT14

Product data sheet

PRODUCT DESCRIPTION

Autostat™ WT14 is a heat stabilised white opaque polyester film, treated with an ink receptive coating on both sides. Autostat™ WT14 has low residual shrinkage at elevated temperatures, essential when inks require high temperature cure and tight registration tolerances. Autostat™ WT14 has a very low transparency and high brightness; it is therefore particularly suitable as a versatile print medium, offering outstanding high mechanical strength and good dimensional stability.

APPLICATIONS

- Biomedical
- Membrane switch and circuitry

PRODUCT PERFORMANCE

THERMAL PROPERTES

Property	Units	Specification	Test Method	Test Conditions
Shrinkage	%	MD <0.20%	DIN 40634	150º C, 30 min
		TD <0.1%		150º C, 30 min

OPTICAL PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Whiteness (Berger) ¹	-	110	ASTM-E 308	-
Transparency ¹	%	9	ASTM-D 1003- 61 Method A	-

SURFACE PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Gloss ¹	-	45	DIN 67530	Measuring angle 20°
Roughness R _a value ¹	nm	50	DIN 4768	Cut off 0.25mm

PHYSICAL PROPERTIES

Property	Units	Specification	Test Method	Test Conditions
Film thickness	Micron	350μm ±15μm		
Curl	mm	<2		
Property	Units	Typical values	Test Method	Test Conditions
Density ¹	g/cm ³	1.5	ASTM-D 1505- 68 Method C	23℃



MECHANICAL PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Tensile strength ¹	N/mm²	MD 130 TD 140		Test speed 100%/min 23° C, 50% RH

¹ This data is typical of polyester films and is derived from base film manufacturer's literature

MD Machine Direction TD Transverse Direction

INK ADHESION

Autostat™ WT14 is treated on both sides with a coating designed to promote adhesion of solvent based inks. It is commonly printed with customers' bespoke inks, and MacDermid Autotype ink adhesion testing can therefore only be indicative. The printer must verify that the ink adhesion of their own ink is fit for purpose.

PACKAGING

Sheets are converted with a tolerance of ± 1mm

IMDS ID-No 164514418

STORAGE

No special storage conditions required.

LEGISLATIVE DIRECTIVES

This product does not knowingly contain any phthalates, or substances listed in the European End-of-Life Vehicles (ELV), Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS) or Waste Electrical and Electronic Equipment (WEEE) Directives.

EC Regulation 594/91 classifies ozone depleting substances into a number of different groups, I-VI. Autostat[®] does NOT contain any substance classified in groups I-VI nor have any of the substances been used by MacDermid Autotype during manufacture. For details of the content of each of the groups, please see separate ozone depleting substances document.

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