

Autostat WT10

Product data sheet

PRODUCT DESCRIPTION

Autostat™ WT10 is a heat stabilised white opaque polyester film, treated with an ink receptive coating on both sides. Autostat™ WT10 has low residual shrinkage at elevated temperatures, essential when inks require high temperature cure and tight registration tolerances. Autostat™ WT10 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 circuitry

PRODUCT PERFORMANCE

THERMAL PROPERTIES

Property	Units	Specification	Test Method	Test Conditions
Shrinkage	%	MD <0.20% TD <0.1%	DIN 40634	150° C, 30 min 150° 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 60°
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	250µm ±15µm		
Property	Units	Typical values	Test Method	Test Conditions
Density ¹	g/cm ³	1.5	ASTM-D 1505-68 Method C	23 °C



MECHANICAL PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Tensile strength ¹	N/mm ²	MD 150 TD 170	ISO 527-1-3	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™ WT10 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 ± 1 mm

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.

Revision No 150320144825AS #1

The information and recommendations in this publication are believed to be accurate and are offered in good faith but do not constitute specifications. Suggestions concerning uses and applications are only the opinion of MacDermid Autotype Limited and users should carry out their own testing procedures to confirm suitability for their purposes. Except in the case of death or personal injury caused by the materials, MacDermid Autotype Limited MAKES NO WARRANTY OF ANY KIND AND EXCLUDES ANY STATUTORY WARRANTY EXPRESS OR IMPLIED other than that materials conform to their current applicable standard specification. Statements herein therefore should not be construed as guarantees of satisfactory quality or fitness for purpose. The responsibility of MacDermid Autotype Limited for claims arising out of breach of guarantee, negligence, strict liability or otherwise is limited to the purchase price of the material. Suggestions concerning working practices and procedures are based on the practices adopted by existing users of the products and are made in good faith. IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT ALL RELEVANT HEALTH AND SAFETY LAWS AND REGULATIONS ARE COMPLIED WITH. MacDermid Autotype Limited does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations. Statements concerning the use of products described herein should not be construed as recommending the infringement of any patent and no liability for infringement arising out of such use is assumed.

© 2015 MacDermid Autotype Ltd

