

AUTOSTAT CT

Product Data Sheet

Pre-primed polyester film with low residual heat shrinkage

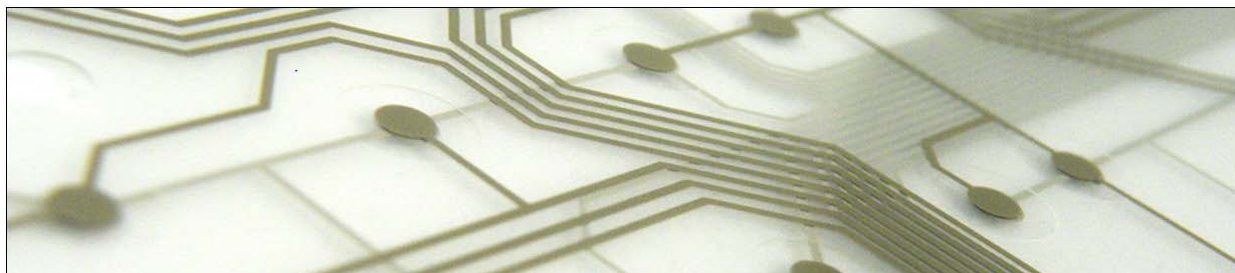


DESCRIPTION

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 CT is a high quality clear, heat stabilised polyester film, pre-primed on both sides, 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 CT – clear, pre-primed polyester film with low residual shrinkage at elevated temperatures | 75 µm | CT3 |
| | 100 µm | CT4 |
| | 125 µm | CT5 |
| | 175 µm | CT7 |

PRIMER

Autostat CT has an ink adhesion primer on both surfaces.

The primer offers excellent adhesion to a wide range of solvent based conductive screen inks and UV dielectric inks, but it is recommended that the customer verifies that the adhesion of their own ink is fit for purpose.



TYPICAL PROPERTIES

| Property | Typical Value | Test Method |
|--|---|-----------------|
| Haze ¹ | <2% | ASTM D1003 |
| Yellowness index ¹ | <2 | ASTM E313 |
| Switch life ³ | >5 million actuations | Test Method 003 |
| Tensile strength at break ¹ | 172 N/mm ² | ASTM D882 |
| Breakdown voltage ¹ | 17 - 19kV | ASTM D149 |
| Dimensional stability ^{2,3} (Thickness ≥100µm) | MD ± 0.2% max @ 150°C/30 minutes TD ± 0.08% max @ 150°C/30minutes | Test Method 094 |
| Dimensional stability ^{2,3} (Thickness ≤75µm) | MD ± 0.5% max @ 150°C/30minutes TD ± 0.1% max @ 150°C/30 minutes | |
| 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

² Specification value

³ For details of test method, please contact MacDermid Autotype

*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 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

| | | |
|--|---|--|
| <p>North America MacDermid Autotype Inc. 245 Freight Street Waterbury, CT 06702, USA (800) 323 0632 autotypeusinfo@macdermid.com</p> | <p>Europe MacDermid Autotype Ltd. Grove Road, Wantage, Oxon OX12 7BZ, UK +44 (0) 1235 771111 salessupport@macdermidautotype.com</p> | <p>Asia MacDermid Autotype Pte Ltd. 14 Joo Koon Crescent Singapore 629014 +65 64300701 autotype-asia@macdermid.com</p> |
|--|---|--|

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.