

AUTOTEX XE

Product Data Sheet

Hardcoated Polyester Film for Extreme Environments



PRODUCT DESCRIPTION

Autotex XE has been developed for applications such as instrument, fascia and membrane switch panels and durable labels that are used where high or widely fluctuating temperatures, excessive humidity and strong levels of ultraviolet light are encountered.

Autotex XE is available in sheets and rolls.



PRODUCT RANGE

| Product | Finish | Gauge | |
|---|--------|-------------------|-------------------|
| | | 150 μm | 200 μm |
| Autotex XE with 0-series ink primer for solvent based screen printing inks and UV cured digital | Fine | XE F150 | XE F200 |
| | Velvet | XE V150 | XE V200 |
| Autotex XE with 3-series ink primer for UV cured inkjet, UV cured screen printing and solvent based screen printing inks | Fine | XE F153 | XE F203 |
| | Velvet | XE V153 | XE V203 |
| Autotex XE with 7-series ink primer for UV cured screen printing inks and solvent based screen printing inks | Fine | - | XE F207 |
| | Velvet | XE V157 | XE V207 |



TYPICAL PROPERTIES

| Property | Typical Value | Test Method |
|--|--|---|
| Haze ¹ Fine Velvet | 58% ± 5% 71% ± 5% | ASTM D1003 |
| Total luminous transmission ¹ | 92% ± 2% | ASTM D1003 |
| Gloss level (60°) ¹ Fine Velvet | 7 ± 1.5 GU 4.5 ± 1 GU | ASTM D2457 (modified to test method 022) |
| Yellowness index ³ | < 5 | ASTM E313 |
| Hardcoat adhesion ³ | Pass | Test method 080 |
| Switch life ¹ | > 5 million actuations | Test method 003 |
| Tensile strength at break ² | 172-190 N / mm ² | ASTM D882 |
| Breakdown voltage ² 150 µm 200 µm | 16 - 18 kV 18 - 20 kV | ASTM D149 |
| Dimensional stability ³ | 0.2% max shrinkage MD at 120 °C | Test method 094 |
| Thickness all grades ¹ | Nominal ± 10% | Test method 096 |
| Maximum processing temperature | 120 °C | - |
| Maximum use temperature ¹ | Low humidity (< 10% RH) 85 °C | Test method 012 |
| Maximum use temperature ¹ | High humidity (85% RH) 85 °C | Test method 012 |
| Minimum use temperature ¹ | -40 °C (-40 °F) | Test method 012 |
| Chemical resistance | Excellent resistance to many common industrial solvents and household chemicals - please see Autotex XE Solvent Resistance Data Sheet | |
| Outdoor resistance | Please see Autotex XE Environmental Data Sheets | |

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.

¹For details of test method, please contact MacDermid Enthone Industrial Solutions

²Data derived from base film manufacturer's literature

³Specification value



PRIMER

Autotex XE has an ink adhesion primer on the second surface. Three versions are available:

The standard or 0-series primer is for use with solvent based screen printing inks and has been used successfully with some digital UV curable inkjet inks.

The 3-series primer is for use with UV curable inkjet inks, solvent based screen printing inks and UV screen printing inks.

The 7-series primer is for use with UV curable screen printing inks and solvent based screen printing inks.

WINDOWS

Windotex is not a UV resistant product and is therefore not recommended for prolonged use outdoors. Due to the stabilising chemistry used in **Autotex XE**, the adhesion of Windotex to the surface may be impaired. Contact MacDermid Enthone Industrial Solutions for further information.

SHELF LIFE & STORAGE CONDITIONS

Shelf life of **Autotex XE** is 36 months from date of manufacture when stored in cool, dry conditions in the original packaging. Once processed this shelf life does not apply. Finished parts can last many years.

The following storage conditions are recommended:

| Storage Conditions | |
|--------------------|--|
| Temperature | 15 °C to 25 °C |
| 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 |
| 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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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 does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations.

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