

## Z-Xtreme 5000T

### High-performance labeling solution for the most demanding environments

Thermal transfer, white matte coated polyester label with a high-performance permanent acrylic adhesive. The Z-Xtreme 5000T label offers exceptional resistance to harsh conditions, including exposure to chemicals, abrasion, and extreme temperatures. Its robust polyester construction ensures long-lasting adhesion and readability, making it ideal for industrial applications where precision and endurance are paramount.

Z-Xtreme 5000T stands out for its exceptional durability. It is engineered to withstand extreme temperatures ranging from -40°F to 300°F (-40°C to 149°C), making it suitable for both cold storage and high-heat industrial applications. The label's resistance to moisture, chemicals, and abrasion ensures that it remains intact and legible, even in the harshest conditions, making it ideal for sectors such as manufacturing, logistics, healthcare and government.



### Print Confident. Print Quality. Print Zebra.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pre-test our own line of thermal printing supplies to ensure consistent, optimized performance. We utilize an ISO 9001 certified, 23-point inspection process and consistent materials to ensure reliable performance from order-to-order. No matter when you order your labels, you can count on the same consistent performance.

### Unparalleled smear and scratch, excellent durability and chemical resistant

Z-Xtreme 5000T labels, when paired with Zebra's Image Lock ribbon, the result is a high-performance labeling solution that sets a new standard in durability and print quality. This solution is engineered to meet the rigorous demands of industrial and commercial environments, ensuring that labels remain intact and legible under the most challenging conditions.

### Complies with UID test requirements

When Z-Xtreme 5000T labels are combined with the Image Lock ribbon, it achieves compliance with Unique Identification (UID) test requirements, making it an exemplary choice for applications that demand stringent adherence to identification standards. UID compliance is critical in sectors such as defense, aerospace, and government contracting, where precise and durable identification is essential for asset tracking and lifecycle management.

### Customization Available

Zebra can deliver Z-Xtreme 5000T labels in just about any size, shape or label set configuration to meet the requirements of your application and process. In addition, our flexographic print presses can add pre-printed text, graphics and color.

**Z-Xtreme 5000T — High-performance labeling solution designed for the most demanding environments.**

For more information, visit [www.zebra.com/supplies](http://www.zebra.com/supplies)

# Specifications

# Markets and Applications

## Material Construction

|                         |                                            |
|-------------------------|--------------------------------------------|
| RM Number               | 10040775RM                                 |
| Facestock               | White matte coated polyester; 2.5 mils     |
| Adhesive                | Permanent Acrylic Adhesive; 1.0 mils       |
| Liner                   | 50 lb. semi-bleached kraft stock; 3.1 mils |
| Total thickness +/- 10% | 5.8 to 6.6 mils                            |
| Environment             | Indoor use; Outdoor use up to 3 years      |

## Temperature Performance

|                                              |                 |
|----------------------------------------------|-----------------|
| Minimum Application Temperature <sup>1</sup> | 50°F / 10°C     |
| Service Temperature Range <sup>2</sup>       | -40° C to 70° C |

## Recommended Printers and Settings

|          |                                                                                                                                        |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|
| Printers | Thermal transfer printer (ribbon required); use Zebra desktop, mid-range and high-performance thermal printers for optimal performance |
| Ribbons  | Suggested ribbon: Image Lock<br>Use resin ribbons for optimal performance                                                              |

## Adhesive Strength

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Stainless Steel | 5 minute dwell time: 52 oz/in.<br>24 hour dwell time: 62 oz/in. |
| Polycarbonate   | 5 minute dwell time: 38 oz/in.<br>24 hour dwell time: 46 oz/in. |
| Polyethylene    | 5 minute dwell time: 4 oz/in.<br>24 hour dwell time: 7 oz/in.   |

## Chemical Resistance

|                    |                         |
|--------------------|-------------------------|
| Weak chemicals     |                         |
| Blood              | Image Lock: Recommended |
| Body Fluid         | Image Lock: Recommended |
| Salt Water         | Image Lock: Recommended |
| Water              | Image Lock: Recommended |
| Window Cleaner     | Image Lock: Recommended |
| Moderate chemicals |                         |
| Alcohol            | Image Lock: Recommended |
| Ammonia            | Image Lock: Recommended |
| Bleach             | Image Lock: Recommended |
| IPA                | Image Lock: Recommended |
| Harsh chemicals    |                         |

## Regulatory and Compliance

|                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|
| FDA 175.105 for indirect contact with dry foodstuffs, or alternatively separated by a functional barrier.<br>BPA and latex free |
|---------------------------------------------------------------------------------------------------------------------------------|

## Product Performance and Sustainability

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Recommended Storage Conditions    | 72°F / 22°C at 50% RH            |
| Expected Life Span in Application | Indoor and outdoor up to 3 years |
| Sample Part Number                | SAMZXT10043600                   |

## Footnotes

|                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. When the label is applied, the environment and surface should be above this temperature.<br>2. Following correct application and appropriate dwell time (usually 24 hrs) the media will withstand this temperature range.<br>3. Following correct application and appropriate dwell time (usually 24 hrs) we expect, but do not warrant, a life span as indicated. |
| * Specifications are subject to change without notice.<br>* All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.                                                                                                                                                                                          |

- Product identification
- Automotive part labeling
- Laboratory slide labeling
- Asset Tracking

# Chemical Resistance

|                   |                         |
|-------------------|-------------------------|
| Gasoline          | Image Lock: Recommended |
| Grease            | Image Lock: Recommended |
| Oil               | Image Lock: Recommended |
| Extreme Chemicals |                         |
| Acetone           | Image Lock: Recommended |
| IR Reflow         | Image Lock: Recommended |
| MEK               | Image Lock: Recommended |
| TCE               | Image Lock: Recommended |
| Xylene            | Image Lock: Recommended |



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