

# 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.

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

# Specifications

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%	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 Use resin ribbons for optimal performance
Adhesive Strength	
Stainless Steel	5 minute dwell time: 52 oz/in. 24 hour dwell time: 62 oz/in.
Polycarbonate	5 minute dwell time: 38 oz/in. 24 hour dwell time: 46 oz/in.
Polyethylene	5 minute dwell time: 4 oz/in. 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	
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

Regulatory and Compliance	
FDA 175.105 for indirect contact with dry foodstuffs, or alternatively separated by a functional barrier. 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.	
2. Following correct application and appropriate dwell time (usually 24 hrs) the media will withstand this temperature range.	
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.	
* All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.	

## Markets and Applications

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



NA and Corporate Headquarters  
+1 800 423 0442  
inquiry4@zebra.com

Asia-Pacific Headquarters  
+65 6858 0722  
contact.apac@zebra.com

EMEA Headquarters  
zebra.com/locations  
contact.emea@zebra.com

Latin America Headquarters  
zebra.com/locations  
la.contactme@zebra.com