

Z-Xtreme 4000T Label

Thermal transfer, matte polyester label with a permanent, high-performance acrylic adhesive in white or silver

Optimal for the labeling of assets in more challenging environments, including those that require chemical processing, Zebra's Xtreme 4000T label delivers. This thermal transfer, matte polyester label, with high-performance rubber adhesive, available in white (05381RM) or silver (05385RM), is engineered to provide excellent print quality and durability. When paired with Zebra's 6200 wax/resin or 6100 and 3200 resin ribbons, you get good smear and scratch-resistant print and excellent durability against moderate chemicals, such as alcohol, IPA and ammonia. Its UL acceptance makes it a great choice for identifying UL-certified products that will be used indoors and outdoors. It is suitable for fan-folding. And with Zebra's legacy of craftsmanship and durability, you can count on optimized performance – with each and every label. Z-Xtreme 4000T labels are recommended for a wide variety of labeling applications, including UL-certified products, top-side PCB labeling, product identification and automotive labeling.



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.

Good smear and scratch, excellent chemical and high-heat resistant

Z-Xtreme 4000T labels, when paired with Zebra's 6200, 6100 or 3200 ribbons, offer good adhesive quality and excellent print durability with resistance to smearing and scratching, ensuring your assets remain identifiable throughout their useful life. The label will remain readable and intact when subjected to moderate chemicals, such as alcohol, ammonia, IPA and bleach, making it the perfect choice for identifying assets that will require cleaning and disinfecting with chemicals, such as medical devices and food preparation equipment. Once applied, this label can withstand temperatures up to 300° F/149° C, making it a reliable choice to identify products which require high-heat processing during manufacturing and those that will be subjected to heat when in use, such as some food preparation equipment.

UL certified labeling solution

Z-Xtreme 4000T labels, combined with Zebra's 6200, 6100 and 3200 ribbons, have been fully tested and certified by UL to the UL 969 standard. In addition, Zebra supplied manufacturing plants are authorized to pre-print the UL mark.

Customized for your application.

Zebra can deliver Z-Xtreme 4000T labels in multiple sizes, shapes and label set configurations 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 4000T Label - UL certified, high-heat, smear and scratch resistant labels with moderate chemical resistance and high-performance, permanent acrylic adhesive for more challenging applications. For more information, please visit www.zebra.com/supplies

Specifications

Material Construction	
Raw Material Number	05381RM (white) or 05385RM (silver)
Facestock	Thermal transfer, matte, polyester 2.0 mil/50.8 microns
Adhesive	High-performance, permanent acrylic adhesive 1.0 mil/25.4 microns
Liner	50 lb/74 gsm semi-bleached kraft stock 3.0 mil/76.2 microns
Total Thickness (+/-10%)	6.0 mil/152.4 microns
Environment	Indoor use; Outdoor use up to 3 years
Temperature Performance	
Minimum Application Temperature ¹	50° F/10° C
Service Temperature Range ²	-40° F to 300° F/-40° C to 149° C
Recommended Printers and Ribbons	
Printers	Thermal transfer printer (ribbon required); use Zebra desktop, mid-range and high-performance thermal printers for optimal performance
Ribbons	Compatible with Zebra 6200, 6100 and 3200 resin ribbons for optimal performance
Adhesive Strength	
Stainless Steel	5 minute dwell time: 40 oz/in.
	24 hour dwell time: 52 oz/in.
Polycarbonate	5 minute dwell time: 46 oz/in.
	24 hour dwell time: 74 oz/in.
Polyethylene	5 minute dwell time: 24 oz/in.
	24 hour dwell time: 28 oz/in.
Facestock Tensile Strength	
Machine Direction	18,000 psi
Transverse Direction	22,000 psi
Chemical Resistance	
Weak Chemicals	
Blood	6200, 6100 & 3200: Recommended
Body Fluid	6200, 6100 & 3200: Recommended
Salt Water	6200, 6100 & 3200: Recommended
Water	6200, 6100 & 3200: Recommended
Window Cleaner	6200, 6100 & 3200: Recommended

Moderate Chemicals	
Alcohol	6200, 6100 & 3200: Recommended
Ammonia	6200, 6100 & 3200: Recommended
Bleach	6200, 6100 & 3200: Recommended
IPA	6200, 6100 & 3200: Recommended
Harsh Chemicals	
Gasoline	6200, 6100 & 3200: Test in your application
Grease	6200, 6100 & 3200: Test in your application
Oil	6200, 6100 & 3200: Test in your application
Extreme Chemicals	
Acetone	6200, 6100 & 3200: Test in your application
IR Reflow	6200, 6100 & 3200: Test in your application
MEK	6200, 6100 & 3200: Test in your application
TCE	6200, 6100 & 3200: Test in your application
Xylene	6200, 6100 & 3200: Test in your application

Regulatory Compliance	
UL with 6200, 6100 & 3200 ribbons; UL-recognized for indoor/outdoor use	

Product Performance and Suitability	
Recommended storage conditions	1 year duration when stored at 72° F/22° C at 50% RH
Expected life span in application ³	Indoor and outdoor up to 3 years

Material Testing in End Application

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

Warranty

Supplies are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty.

- Footnotes**
- When the label is applied, the environment and surface should be above this temperature.
 - Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range.
 - Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated.

Markets and Applications

Manufacturing

- Top-side PCB labeling
- Product identification
- Automotive labeling
- UL product labeling



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