Z-Supreme 2100T

High-performance thermal transfer label with high-temp permanent acrylic adhesive

The Zebra Z-Supreme 2100T is a high-performance thermal transfer label with high-temp permanent acrylic adhesive, designed for demanding applications that require excellent durability and resistance to harsh environments. Made with a white coated polyimide facestock, it is ideal for labeling in industries such as manufacturing, electronics, and automotive, where exposure to chemicals, heat, and abrasion is common. This label delivers outstanding print quality when used with compatible Zebra resin ribbons, ensuring sharp and long-lasting barcodes or text. Its strong adhesive ensures reliable application on a variety of surfaces, making it a trusted choice for tough labeling needs.

With its durable construction and heat-resistant properties, the Z-Supreme 2100T performs reliably in conditions involving sustained exposure to elevated temperatures. It resists discoloration, peeling, and fading, ensuring that printed information, such as barcodes or serial numbers, remains legible and intact even under intense heat.



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-Supreme 2100T labels, when paired with Zebra's 5100 or 5095 resin ribbons, the result is a high-performance labeling solution that sets a new standard in durability and print quality. This solution is specifically engineered to withstand extreme high-temperature applications, making it an excellent choice for environments where standard labels would fail.

UL-recognized

The Zebra Z-Supreme 2100T label is UL approved with the 5100 and 5095 ribbons, ensuring it meets rigorous safety and performance standards for industrial applications. This certification provides assurance that the label has been tested and verified for use in environments with strict regulatory requirements, such as electronics and electrical equipment manufacturing. The UL approval highlights the label's ability to maintain compliance in industries where safety, traceability, and quality are critical, making it a trusted solution for high-performance labeling needs.

Customization Available

Zebra can deliver Z-Supreme 2100T 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-Supreme 2100T — High-performance thermal transfer label with high-temp permanent acrylic adhesive.

For more information visit www.zebra.com/supplies

Specifications

Material Construction

RM Number	10043692RM
Facestock	White coated polyimide; 2.7 mils
Adhesive	High-temp Permanent Acrylic Adhesive; 1.5 mils
Liner	50 lb. white glassine; 2.7 mils
Total Thickness (+/- 10%)	6.9 mils
Environment	Indoor use; Outdoor use up to 2 years

Temperature Performance

Minimum Application Temperature[1]	50°F / 10°C
Service Temperature Range[2]	-40° C to 180° C (-40° F to 356° F)

Recommended Printers and Ribbons

Printers	Thermal transfer printer (ribbon required); use Zebra mid-range and high-performance thermal printers for optimal performance
Ribbons	Suggested ribbon: 5100 and 5095 resin ribbons. Use resin ribbons for optimal performance

Time/Temperature Performance

500°F / 260°C	5 minutes
750°F / 399°C	Intermittent

Chemical Resistance

Weak Chemicals	
Blood	5100 or 5095 ribbons: Recommended
Body Fluid	5100 or 5095 ribbons: Recommended
Salt Water	5100 or 5095 ribbons: Recommended
Water	5100 or 5095 ribbons: Recommended
Window Cleaner	5100 or 5095 ribbons: Recommended
Moderate Chemicals	
Alcohol	5100 or 5095 ribbons: Recommended
Ammonia	5100 or 5095 ribbons: Recommended
Bleach	5100 or 5095 ribbons: Recommended
IPA	5100 or 5095 ribbons: Recommended
Harsh Chemicals	
Gasoline	5100 or 5095 ribbons: Recommended
Grease	5100 or 5095 ribbons: Recommended

Regulatory and Compliance

UL approval and compatibility with RoHS compliant processes ensure that your labeling solutions meet the necessary regulatory/safety requirements, offering peace of mind and assurance of quality.
BPA and latex free

Product Performance and Suitability

Recommended Storage Conditions	70°F / 21°C at 50% RH
Expected Life Span in Application	Indoor and outdoor up to 2 years
Sample Part Number	SAMZST10044170

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.
* All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.

Markets and Applications

Application Uses

• Product identification
• Automotive part labeling
• Bottom-side lead-free PCB labeling
• Extreme high temperature applications

Chemical Resistance

Oil	5100 or 5095 ribbons: Recommended
Extreme Chemicals	
Acetone	5100 or 5095 ribbons: Recommended
IR Reflow	5100 or 5095 ribbons: Recommended
MEK	5100 or 5095 ribbons: Recommended
TCE	5100 or 5095 ribbons: Recommended
Xylene	5100 or 5095 ribbons: Recommended

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