8100T CryoCool Label

Extreme low temperature label

Laboratory labels for cryogenic applications that fail to scan can affect the efficiency and productivity of laboratories. Replacing failed labels and reprocessing lab samples wastes time and money, reduces laboratory workers' efficiency and can cause delays to patient care or treatment. In cryogenic storage, it can be tough to find the right label for vials and test tubes that fit well and stay adhered. The 8100T CryoCool is specially designed to withstand harsh cryogenic conditions. Its permanent adhesive provides outstanding adhesion to small-diameter vials and tubes, making it the perfect choice for a variety of lab applications. Maintaining adhesion down to -196°C, the 8100T CryoCool is suitable for liquid nitrogen applications and can withstand dry ice and gamma radiation.

Resistant down to -196°C
Suitable for cryogenic applications, dry ice and gamma radiation, the 8100T CryoCool maintains adhesion and readability down to -196°C.

Outstanding adhesion to small diameter vials
The permanent adhesive holds well on small vials or test tubes, making the 8100T CryoCool ideal for a wide variety of laboratory labelling applications such as sample and specimen labelling.

Excellent print quality
When paired with the 5095-resin ribbon, the 8100T CryoCool provides excellent print quality, durability and readability every time.

Count on consistently exceptional performance
A barcode that fails to scan jeopardizes patient safety and staff productivity. 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 quality inspection to ensure consistent quality. You get optimum image durability and scanning performance—ensuring first-scan readability even for narrow barcodes.

Reliably identify lab samples in cryogenic storage with the 8100T CryoCool.
For more information, please visit www.zebra.com/barcodesupplies

Specifications

Material Construction

Raw Material Number	10035938RM
Facestock	Satin white print polyester (50 µm)
Adhesive	Permanent high-performance acrylic adhesive (26 µm)
Liner	White glassine liner (66 µm)
Total Thickness (+/-10%)	142 µm +10%
Environment	Indoor use; cold temperature and cryogenic temperature compatible

Temperature Performance

Minimum Application Temperature	4ºC
Service Temperature Range	-196ºC to 100ºC

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 5095 and 4800 ribbon

Adhesive Strength

Corrugate	N/A
Steel	5-minute dwell time: 40.867 oz 24-hour dwell time: 48.317 oz
Polycarbonate	5-minute dwell time: 46.628 oz 24-hour dwell time: 64.483 oz
Polyethylene	5-minute dwell time: 37.811 oz 24-hour dwell time: 46.587 oz

Chemical Resistance

Weak Chemicals	
Blood	Recommended
Body Fluid	Recommended
Salt Water	Recommended
Water	Recommended
Window Cleaner	Recommended
Moderate Chemicals	
Alcohol	Recommended
Ammonia	Recommended
Bleach	Recommended

UL/cUL Certified Materials with this Ribbon

Z-Xtreme 4000T and Z-Ultimate 3000T White

Regulatory and Compliance

BPA Free and Latex Free

Product Performance and Suitability

Recommended Storage Conditions	1 year duration when stored at 22°C at 50% RH
Expected Life Span in Application	Indoor use: for 1 year+ Outdoor use: up to 6 months
Sample Part Number	SAMPLE35938

Material Testing in End Application

This 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 independendently determining if the product conforms to all requirements of their unique application. All products should be pre-tested to ensure they meet all intended requirements of specific end-use applications.

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

Markets and Applications

Healthcare

• Medical laboratories and specimen labelling
• Universities/ research facilities
• Hospitals and healthcare
• Cold temperature/industrial manufacturing
• Labeling of samples subjected to freeze-thaw cycles

Chemical Resistance

IPA	Recommended
Harsh Chemicals	
Gasoline	Test in your application
Grease	Test in your application
Extreme Chemicals	
Acetone	Test in your application
IR Reflow	Test in your application
MEK	Test in your application
TCE	Test in your application
Xylene	Test in your application