

8000T CryoCool Label

Extreme low temperature label

The 8000T CryoCool label offers exceptional durability and reliability, ensuring that critical information remains intact even under extreme conditions. This is a thermal transfer, polypropylene label with a cold-temp permanent acrylic adhesive. Key benefits include their ability to withstand temperatures as low as -196°C, making them ideal for applications in cryogenic storage, biobanking, clinical trials, pharmaceutical manufacturing, and other scientific research settings where long-term sample integrity is crucial. Additionally, the CryoCool 8000T labels provide excellent resistance to chemicals and abrasion, ensuring that they remain legible and secure throughout various handling processes. With superior adhesive properties, these labels maintain their adherence on a wide range of surfaces, including vials, tubes, and slides, offering peace of mind that important data will not be lost.



Excellent Print Quality

When paired with the 6200-resin ribbon, the 8000T 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.

Resistant down to -196° C (-320° F)

Suitable for cryogenic applications, dry ice and gamma radiation, involving a deep freezing process that takes objects down in temperature below -196° C.

Outstanding adhesion to small diameter vials

The permanent adhesive holds well on small vials or test tubes, making the 8000T CryoCool ideal for a wide variety of laboratory labeling applications such as sample and specimen labeling.

Customization Available

Zebra can deliver 8000T CryoCool 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.

Specifications

Material Construction	
Raw Material Number	66680RM
Facestock	White coated gloss polypropylene; 2.3 mil
Adhesive	Permanent, acrylic-based adhesive; 0.8 mil
Liner	Semi-bleached, kraft stock; 2.3 mil
Total Thickness (+/-10%)	5.4 mil +10%
Environment	Indoor use; cold temperature and cryogenic temperature compatible

Temperature Performance	
Minimum Application Temperature	-20°F (-29°C)
Service Temperature Range	-320°F to 190°F -196°C to 88°C

Recommended Printers and Ribbons	
Printers	Thermal transfer printer (ribbon required); use Zebra desktop and industrial, mid-range and high-range thermal printers for optimal performance
Ribbons	Recommended: 6200 Standard Resin Ribbon

Adhesive Strength	
Corrugate	N/A
Steel	5-minute dwell time: 28 oz 24-hour dwell time: 32 oz
Polycarbonate	5-minute dwell time: 11 oz 24-hour dwell time: 13 oz
Polyethylene	5-minute dwell time: 11 oz 24-hour dwell time: 13 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
IPA	Recommended

Harsh Chemicals	
Gasoline	Test in your application
Grease	Test in your application
Oil	Test in your application

Extreme Chemicals	
Acetone	Not Recommended
IR Reflow	Not Recommended
MEK	Not Recommended
TCE	Not Recommended
Xylene	Not Recommended

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	SAM66680

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 independently 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: 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



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