

## Z-Perform™ 1000D PF Label

### Direct thermal, phenol-free, paper label with permanent acrylic adhesive

Many thermal materials utilize phenol developers, such as BPS or BPA, which studies have shown can negatively impact users' health. Zebra's Z-Perform 1000D PF label, however, offers you a unique alternative. This direct-thermal paper label is engineered with Vitamin C as its developer, offering an ideal substitute to phenols, while delivering the performance you have come to rely on from Zebra's Z-Perform family. The Vitamin C developer creates an orange tone to the material, which enables your brand to stand out from the crowd as an environmentally conscious global partner. The permanent acrylic adhesive can be applied to surfaces as cold as -4° F/-20° C. And with Zebra's legacy of craftsmanship and durability, you can count on optimized performance — with each and every label. Z-Perform 1000D PF labels are recommended for a wide variety of labeling applications including shipping, receiving, and work-in-process.



#### **Count on Consistently Exceptional Performance with Zebra Certified Supplies**

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 quality inspection to ensure consistent quality — and we never swap out materials. No matter when you order your labels, you can count on the same great performance.

#### **Phenol-Free**

Many thermal supplies use phenols as developers. Phenols are considered by some to be dangerous chemicals that have the potential to lead to adverse health conditions. Zebra's Z-Perform 1000D PF material offers a phenol-free labeling solution while delivering the performance you have come to expect from Zebra Certified Supplies.

#### **Utilizes Vitamin C as a Developer**

The Z-Perform 1000D PF label features an innovative, direct thermal paper facesheet that uses an alternative, phenol-free developer – Vitamin C. The orange tone on a label is easily recognizable as phenol-free, offering your company the opportunity to promote yourself as an environmentally conscious global partner, as well as a company looking out for the health and well-being of its stakeholders.

#### **Ensure Long-Term Adhesion for a Variety of Applications**

With its permanent acrylic adhesive that offers excellent adhesion on corrugated packaging, Z-Perform 1000D PF labels are ideal for a wide variety of indoor applications in shipping, logistics, and warehousing.

**Z-Perform 1000D PF — Phenol-free direct thermal label that delivers reliable performance.**

For more information on the Zebra's Z-Perform 1000D PF labels, please visit [www.zebra.com/supplies](http://www.zebra.com/supplies)

# Specifications

# Markets and Applications

## Material Construction

Facestock	Uncoated direct thermal paper 2.1 mil
Adhesive	Permanent acrylic adhesive 0.8 mil
Liner	40 lb semi-bleached kraft stock 2.4 mil
Total Thickness (+/- 10%)	5.3 mil
Environment	Indoor use

## Temperature Performance

Minimum Application Temperature <sup>1</sup>	38°F/3°C
Service Temperature Range <sup>2</sup>	-65°F to 200°F/-54°C to 93°C

## Recommended Printers and Ribbons

Printers	Direct thermal printer; use Zebra mobile and desktop mid-range and high-performance thermal printers for optimal performance
Ribbons	N/A

## Adhesive Strength

Corrugate	5 minute dwell time: * 24 hour dwell time: *
Steel	5 minute dwell time: * 24 hour dwell time: *
Polycarbonate	5 minute dwell time: * 24 hour dwell time: *
Polyethylene	5 minute dwell time: * 24 hour dwell time: *
	* Indicates that attraction between adhesive and surface is so great that the facestock rips. Tests performed at room temperature.

## Chemical Resistance

Weak Chemicals	
Blood	Test in your application
Body Fluid	Test in your application
Salt Water	Test in your application
Water	Test in your application
Window Cleaner	Not Recommended
Moderate Chemicals	
Alcohol	Not Recommended
Ammonia	Not Recommended
Bleach	Not Recommended

## Regulatory and Compliance

Paragraph of Information	Meets FDA 175.105 for indirect food requirements
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## Product Performance and Suitability

Recommended Storage Conditions	72°F /22°C at 50% RH
Expected Life Span in Application	Indoor use, for 1 year

## 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.

## 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 24hrs) the media will withstand this temperature range.

## Transportation and Logistics

- Shipping and receiving

## Manufacturing

- Product identification receiving

## Retail

- Price markdown labels

## Chemical Resistance

IPA	Not Recommended
Harsh Chemicals	
Gasoline	Not Recommended
Grease	Not Recommended
Extreme Chemicals	
Acetone	Not Recommended
IR Reflow	Not Recommended
MEK	Not Recommended
TCE	Not Recommended
Xylene	Not Recommended



**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