

## Z-Essentials 540T

### Thermal transfer top-coated paper label with permanent acrylic adhesive

Z-Essentials paper barcode labels are designed for mass-market applications and offer exceptional value. The Z-Essential 540T is a thermal transfer top-coated paper label with permanent acrylic adhesive, making it an economical choice for high-volume applications such as shipping labels, food labeling, work-in-process labeling, and other similar uses.

Moreover, the Z-Essential 540T complies with FDA 175.105 regulations for indirect food contact, making it suitable for application on shrink wrap and other food packaging.

With a service temperature range of -40°F to 140°F (-40°C to 60°C) and a minimum application temperature of 40°F (4°C), the Z-Essential 540T is versatile and reliable in various temperature conditions. Notably, the Z-Essential 540T label is approximately 25% thinner than an equivalent Z-Perform product, allowing for more labels per roll and offering a lower price point.



### 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.

### Recommended Ribbon

To ensure high-quality print images with the Z-Essential 540T label material, we recommend using the Zebra 1600 Wax Ribbon. This ribbon is ideal for paper materials in environments with limited chemical and abrasion exposure. Together, these products provide an excellent solution for our cost-conscious customers.

### Customization Available

Zebra can deliver Z-Essentials 540T 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.

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For more information, visit [www.zebra.com/supplies](http://www.zebra.com/supplies)

# Specifications

## Material Construction

RM Number	10026906RM
Facestock	White smooth top-coated paper; 2.1 mils
Adhesive	Permanent Acrylic Adhesive; 0.8 mils
Liner	25 lb. semi-bleached kraft stock; 1.7 mils
Total thickness	4.6 mil ± 10
Environment	Indoor use

## Temperature Performance

Minimum Application Temperature <sup>1</sup>	30°F/-1°C
Service Temperature Range <sup>2</sup>	-65°F to 200°F/-54°C to 93°C

## Recommended Printers and Settings

Printers	Thermal thermal printers; use Zebra industrial or desktop printers for optimal performance
Ribbons	1600 Wax Ribbon

## Adhesive Strength

Corrugate	5 min: 3.3 oz./in.; 24 hr: 6.9 oz./in.
Steel	5 min: 28.1 oz./in.; 24 hr: 49.9 oz./in. Facestock tore
Polycarbonate	5 min: 26 oz./in.; 24 hr: 44.5 oz./in. Facestock tore
Polyethylene	5 min: 15.6 oz./in.; 24 hr: 16.6 oz./in.

## 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	Test in your application
Moderate chemicals	
Alcohol	Not Recommended
Ammonia	Not Recommended
Bleach	Not Recommended
IPA	Not Recommended
Harsh chemicals	
Gasoline	Not Recommended

## Regulatory and Compliance

FDA 175.105 for indirect contact with dry foodstuffs, or alternatively separated by a functional barrier. BPA and latex free
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## Product Performance and Suitability

Recommended storage conditions	72°F / 22°C at 50% RH
Expected life span in application <sup>3</sup>	Indoor use, 1 year
Sample Part Number	SAM10026906

## 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.
* Specifications are subject to change without notice.

# Markets and Applications

### Logistics

- Shipping
- Cross docking
- Sortation label

### Retail

- Shipping
- Price label
- Shelf label

### Food Industry

- Shipping
- Traceability
- Product Information

### Manufacturing

- Shipping
- Work-in-process

### Transportation

- Shipping

## Chemical Resistance

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



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