

# 5100 Premium Resin Thermal Transfer Ribbon

## Description:

A premium resin ribbon that offers exceptional abrasion and solvent resistance on a wide variety of substrates while still providing excellent edge definition. This ribbon is an excellent choice for printing extremely dense barcodes and high-resolution graphics. Its unique resin base provides excellent resistance to outdoor elements and chemical solvents.

## UL Recognized and CSA Accepting Printing Systems with the following materials:

- Z-Ultimate® 4000T White and Silver
- Z-Ultimate® 4000T Removable (UL only)
- Z-Ultimate® 4000T High-Tack
- Z-Ultimate® 3000T White and Silver
- Z-Ultimate® 2000T White (UL only)
- Z-Xtreme 4000T White and Silver
- Z-Xtreme 4000T High-Tack White and Silver



## Suggested Applications:

- High temperature, harsh environments requiring excellent print quality, print durability and label performance
- Printed circuit board applications
- Replacement for laminated labels
- Labeling applications requiring extreme resistance to chemicals

## Technical Specifications

5100 Premium	
Color	Black
Ink Formulation	Resin
Base Film	Polyester
Base Film Caliper	4.5 microns
Total Caliper	6.6 microns +/- 10%
Scanning Capabilities	IR and Visible Light
Ribbon Length(s) / Inner Core Width(s)	450m (1476 ft.) / 25.4mm (1.0") <u>OR</u> 110m (360 ft.) / 12.7mm (0.5")
Stocked Widths (450m length)	40, 60, 83, 89, 110, 131, 154, 174, 220mm (1.57", 2.36", 3.27", 3.50", 4.33", 5.16", 6.06", 6.85", 8.66")
Stocked Widths (110m length)	40, 60, 89, 110mm (1.57", 2.36", 3.50", 4.33")
Stocked Widths (74m length)	33, 57, 64, 84, 110mm (1.30", 2.24", 2.52", 3.31", 4.33")

Recommended Storage Conditions: 23°F to 104°F (-5°C to 40°C) at 20% to 85% RH



## 5100 Bar Code Scannability

The below scannability testing was performed on a variety of Zebra tabletop printers.

Label Facestock	Print Speed	Bar Code	Lab Results
Coated Paper Labels and Tags	Not recommended		
Synthetics	Up to 4 ips	10 mil normal code	Typical ANSI Grade A
Coated Paper Labels and Tags	Not recommended		
Synthetics	Up to 4 ips	15 mil rotated code	Typical ANSI Grade B

## 5100 Performance Analysis

All of the below tests were performed using 10 cycles (20 rubs) with the crockmeter.

Test Solvents	Z-Ultimate® 4000T White	Z-Xtreme™ 4000T
Glass Cleaner w/Ammonia	*	*
Formula 409*	*	*
Skydrol*	*	—
Motor Oil	*	*
Brake Fluid	*	*
Gunk Degreaser*	*	*
WD-40*	*	*
Genesolv*		
Rho-Tron*	—	
Hexane	*	*
Xylene		
Gasoline		
Acetone		
Alcohol (90% Isopropyl Alcohol)	*	*

\*Trademarks of the respective companies.

- \* Scanning receives a "B" ANSI grade or better
- Scanning receives a "F" ANSI grade or better
- Barcode does not scan

All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications. For testing of this product, please order sample ribbon 5100BK08005.

