

5100 Premium Resin

Thermal Transfer Ribbon

Description:

A premium resin ink formulation that produces images resistant to the harshest environments: smear, moisture, abrasion, extreme temperature and chemicals, when printed on Zebra's synthetic label and tag materials.

UL Recognised and CSA Accepting Printing Systems with the following label materials:

- Z-Ultimate[®] 3000T White
- Z-Ultimate[®] 3000T Silver
- Z-Xtreme[™] 4000T White High-Tack
- Z-Xtreme[™] 4000T Silver High-Tack
- Z-Xtreme[™] 4000T White



Suggested Applications

- High temperature, harsh environments requiring excellent print quality, print durability and label performance.
- Printed circuit board applications.
- Long term outdoor exposure.
- Replacement for laminated labels.
- Labelling applications requiring extreme resistance to chemicals.

Technical Specifications

5100 Premium Resin	
Colour	Black
Ink Formulation	Resin
Base Film	Polyester
Base Film Caliper	4.5 microns
Scanning Capabilities	IR and Visible Light
Ribbon Length(s)	450 metres / 16 metre cassettes for PT403 printers
Stocked Widths (mm)	40, 60, 83, 89, 110, 154mm / 110mm cassettes

Recommended Storage Conditions:

One year duration when stored at -5°C to 40°C
(23°F to 104°F) at 20% to 85% RH



5100 Bar Code Scannability

The below scannability testing was performed on 140X/III, 90X/III and 170X/III.

Label Facestock	Print Speed	Bar Code	Lab Results
Synthetics	Up to 152.4mm/sec	10 or 12 mil normal code	Typical ANSI Grade A
Synthetics	Up to 101.6mm/sec	15 mil rotated code	Typical ANSI Grade B

Performance Analysis

All of the below tests were performed on Z-Xtreme™ 4000T White using 10 cycles (20 rubs) with the crockmeter.

Test Solvents	Zebra 5100
Glass Cleaner w/Ammonia	✓
Formula 409	✓
Skydrol	X
Motor Oil	✓
Brake Fluid	✓
Gunk Degreaser	✓
WD-40	✓
Genesolv	
Rho-Tron	
Hexane	✓
Xylene	X
Gasoline	X
Acetone	
Alcohol (90% Isopropyl Alcohol)	✓

- ✓ Scanning receives a "B" ANSI grade or better
- x Scanning receives a "F" ANSI grade or better
- Barcode does not scan

Note: All products should be pre-tested to ensure that they meet all intended requirements of specific end-use applications. For testing of this product on Zebra industrial mid-range and high-end printers, please order part number **05100BK08305**. For a full, up-to-date list of parts available for all Zebra printers, please contact your authorized Zebra reseller.

