

3300 Wax Resin Ribbon

General purpose Thermal Transfer Ribbon

Zebra's 3300 Wax Resin Ribbon is a general-purpose thermal transfer ribbon is a versatile solution engineered for a wide array of labeling needs. Its key benefits include the ability to print on all label substrates, from rough papers to synthetics, ensuring maximum flexibility. The ribbon is designed for high-speed printing environments, capable of reaching speeds up to 16 inches per second (400 mm/s). Furthermore, it operates at low energy settings, which not only reduces power consumption but also helps to preserve and extend the life of the printer's printhead, leading to lower operational costs over time.



The 3300 Wax Resin ribbon is suitable for an extensive range of applications, making it an ideal choice for industries such as pharmaceuticals (drug labels), food and beverage (food information labels), retail, and manufacturing. Its use cases extend to outdoor product labels, horticultural tags, building materials, clothing tags, and even automotive interior labels. The product meets numerous international standards and approvals, including REACH/SVHC, EU and US FDA food contact regulations, RoHS for heavy metals, California Proposition 65, and UL 969, ensuring it is safe and compliant for a global market. For best results, it should be stored between 5-35°C (40-95°F) with 20-80% relative humidity.

The ribbon is constructed with precision for optimal performance. It demonstrates strong resistance to abrasion and can withstand heat up to 100°C (212°F), making it durable for various conditions, although it has lower resistance to solvents.

Zebra 3300 Wax Resin Ribbon

For more information, please visit www.zebra.com/supplies

Specifications

Technical Specifications

Color	Black
Ink Formulation	Wax/Resin
Base Film	Polyester Base
Film Caliper	4.5µm
Total Caliper: XX microns +/- 10%	< 9µm
Ink Melting Point	75°C (167°F)
Scanning Capabilities	IR and Visible Light
Optical Density	2.1 ODR
Heat Resistance	100°C (212°F)

Product Performance and Suitability

Recommended storage conditions (before use)	5-35°C (40-95°F) with 20-80% relative humidity
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Regulatory and compliance

REACH / SVHC 1907/2006/EC EU Food Contact 1935/2004/EC US Food Contact FDA RoHS / Heavy Metals 2011/65/EU California Proposition 65 Halogens IEC 61249-2-21:2003 UL 969

Stocked Sizes Available for Zebra Printers

Essential-range, Mid-range and high-performance thermal printers, other legacy Zebra printers. Different widths/lengths are available on request subject to minimum order quantities and lead times.
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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. All products should be pre-tested to ensure they meet all intended requirements of specific end-use applications.
*Specifications are subject to change without notice.

Markets and Applications

Industries:

- Pharmaceuticals (drug labels)
- Food and Beverage (food information labels)
- Retail
- Manufacturing

Use Cases:

- Outdoor product labels
- Horticultural tags
- Building materials
- Clothing tags
- Automotive interior labels

3400 High-Performance Wax/Resin



Available
from stock
on ZipShip

Ribbon	Ribbon Type		Compatible Material	Print Speed	Temperature Resistance	Smear/Scratch Resistance	Chemical Resistance
2300	Wax	Standard	Uncoated/Coated Paper				
2100	Wax	High-Performance	Uncoated/Coated Paper				
3400	Wax/Resin	High-Performance	Uncoated/Coated Paper Matte Synthetics				
3200	Wax/Resin	Premium	Uncoated/Coated Paper Matte Synthetics				
4800	Resin	Performance	Matte/Gloss Synthetics				
5095	Resin	High-Performance	Matte/Gloss Synthetics				
5100	Resin	Premium	Matte/Gloss Synthetics				
Image Lock™	Resin	Specialist	Z-Xtreme™ 5000T				

Additional Features

- High-performance wax/resin which offers excellent print quality on a wide range of uncoated and coated papers, and many matte synthetics
- Ability to print up to 203mm/sec (8ips) for normal and rotated barcodes
- Provides good abrasion and some solvent resistance
- Produces excellent dense barcodes and high-resolution graphics

Suggested Applications

- Labels exposed to heat, steam, solvents, abrasion and friction
- Outdoor labelling applications in harsh environments
- Steel mill tags
- Automotive labels
- Industrial rating plates

UL Recognised

UL approved for use with the following materials:

- Z-Xtreme™ 4000T White High-Tack
- Z-Xtreme™ 4000T Silver High-Tack
- 8000T Void Matte



Technical Specifications

	Description
Colour	Black
Base Film	Polyester
Base Film Caliper	4.5 microns
Total Caliper	10 microns $\pm 10\%$
Scanning Capabilities	IR and Visible Light

Ribbon Compliance

Compliance	3400
REACH/ Substances of Very High Concern (SVHC)	✓
RoHS	✓
Dodd-Frank Act (Conflict Minerals)	✓
Toxic Substances Control Act of 1976	✓
Carcinogenic, Mutagenic and Reprotoxic, or Substances Toxic Substances 1976/769/ EC	
California Proposition 65	✓
FDA 21 CFR Part 175.300 – Indirect Food Contact – Resinous and Polymeric Coatings	✓
European Food Directive 1935/2004/EC	✓
Foodstuffs and Consumer Goods Act and LFGB approved	✓
Halogen free	✓
Latex free	✓
Animal derivatives free	✓
BP Free	✓

Stocked Sizes Available for the following Zebra Printers:

Mid-range and high-performance thermal printers, Zebra engines, other legacy Zebra printers
(Other widths/lengths are available on request subject to minimum order quantities and lead times)

Recommended Storage Conditions:

1 year duration when stored at -5°C to 40°C at 20% to 85% RH

3400 Barcode Scannability

The below scannability testing was performed on 140XiII, 90XiIII, 105SL and Z4M.

Label Facestock	Print Speed	Barcode	Lab Results
Coated paper labels and tags	Up to 203.2mm/sec	10 mil normal code	Typical ANSI Grade A
Coated matte synthetics	Up to 203.2mm/sec	10 mil normal code	Typical ANSI Grade B
Uncoated paper labels and tags	Up to 152.4mm/sec	10 mil normal code	Typical ANSI Grade C
Coated paper labels and tags	Up to 203.2mm/sec	15 mil rotated code	Typical ANSI Grade B
Coated matte synthetics	Up to 152.4mm/sec	15 mil rotated code	Typical ANSI Grade B

Product Performance and Suitability

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All products should be pre-tested to ensure they meet all intended requirements of specific end-use applications.

For testing of this ribbon on Zebra mid-range and high-performance printers please order part number 03400BK11005. For testing on other printer models, please contact your Supplies Specialist representative.