

## 2100 High-Performance Wax

| 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<br>Matte Synthetics |             |                        |                          |                     |
| 3200        | Wax/Resin   | Premium          | Uncoated/Coated Paper<br>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

- Low printhead energy requirements for image transfer means it can print at extremely fast speeds of up to 304.8mm/sec (12ips) and 203mm/sec (8ips)
- Suitable for printing on uncoated and coated paper labels and tags, and additionally on many matte synthetics
- Offers good smear and scratch resistance when compared to other wax ribbons
- Excellent print quality when printing normal or rotated barcodes

### Suggested Applications

- General purpose labelling
- Shipping and receiving including high temperature countries
- Inventory tracking
- Warehousing and distribution
- Retail labels and tags
- High speed print and apply applications with Zebra topcoated paper labels

### Technical Specifications

|                              | Description          |
|------------------------------|----------------------|
| <b>Colour</b>                | Black                |
| <b>Base Film</b>             | Polyester            |
| <b>Base Film Caliper</b>     | 4.5 microns          |
| <b>Total Caliper</b>         | 8 microns            |
| <b>Scanning Capabilities</b> | IR and Visible Light |

## Ribbon Compliance

| Compliance  | 2100 |
|---|------|
| 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 35°C at 20% to 80% RH



## 2100 Barcode Scannability

The below scannability testing was performed on Z4M, 140XiIII, 90XiIII, 105SL and Stripe 600 printers.

| Label Facestock                | Print Speed       | Barcode                  | Lab Results          |
|--------------------------------|-------------------|--------------------------|----------------------|
| Coated paper labels and tags   | Up to 304.8mm/sec | 10 or 12 mil normal code | Typical ANSI Grade A |
| Matte Synthetics               | Up to 254mm/sec   | 10 or 12 mil normal code | Typical ANSI Grade A |
| Uncoated paper labels and tags | Up to 152.4mm/sec | 10 or 12 mil normal code | Typical ANSI Grade B |
| Coated paper labels and tags   | Up to 203.2mm/sec | 15 mil rotated code      | Typical ANSI Grade B |
| Matte Synthetics               | Up to 152.4mm/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 2100 Performance |
|---------------------------------|------------------------|
| Glass Cleaner w/Ammonia         | ✓                      |
| Formula 409                     | ✓                      |
| Motor Oil                       |                        |
| Brake Fluid                     |                        |
| Gunk Degreaser                  |                        |
| WD-40                           |                        |
| Genesolv                        |                        |
| Hexane                          |                        |
| Xylene                          |                        |
| Gasoline                        |                        |
| Acetone                         |                        |
| Alcohol (90% Isopropyl Alcohol) | ✓                      |

✓: Scanning received a “B” ANSI grade or above.

: Scanning received a “C” to “F” ANSI grade.

Blank: Barcode does not scan



## **Product Performance and Suitability**

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.

For testing of this ribbon on Zebra mid-range and high-performance printers please order part number 02100BK11005. For testing on other printer models, please contact your Supplies Specialist representative.