

## 4800 Performance Resin

| 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

- High quality resin ribbon for use on matte and gloss synthetics, and on selected Zebra topcoated paper labels and tags
- Produces excellent dense barcodes and high-resolution graphics
- Excellent chemical resistance and performance in most harsh environments
- Excellent smear and scratch resistance on both matte and gloss synthetics

### 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-Ultimate® 3000T White
- Z-Ultimate® 3000T Silver
- Z-Xtreme™ 4000T White
- Z-Xtreme™ 4000T White High-Tack
- Z-Xtreme™ 4000T Silver High-Tack
- Z-Ultimate® 2500T White
- Z-Ultimate® 3000T Yellow
- Z-Ultimate® 3000T High-Tack



## Technical Specifications

|                              | Description          |
|------------------------------|----------------------|
| <b>Colour</b>                | Black                |
| <b>Base Film</b>             | Polyester            |
| <b>Base Film Caliper</b>     | 4.5 microns          |
| <b>Total Caliper</b>         | 9 microns $\pm 10\%$ |
| <b>Scanning Capabilities</b> | IR and Visible Light |

## Ribbon Compliance

| Compliance  | 4800 |
|---|------|
| 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

## 4800 Barcode Scannability

The below scannability testing was performed on 140XiII, 170XiIII, 105SI and Z4Mplus.

| Label Facestock              | Print Speed       | Barcode                  | Lab Results          |
|------------------------------|-------------------|--------------------------|----------------------|
| Coated paper labels and tags | Up to 152.4mm/sec | 10 or 12 mil normal code | Typical ANSI Grade A |
| Synthetics                   | Up to 152.4mm/sec | 10 or 12 mil normal code | Typical ANSI Grade A |
| Coated paper labels and tags | Up to 101.6mm/sec | 15 mil rotated code      | Typical ANSI Grade C |
| 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 4800 Performance |
|---------------------------------|------------------------|
| Glass Cleaner w/Ammonia         | ✓                      |
| Formula 409                     | ✓                      |
| Skydrol                         |                        |
| Motor Oil                       | ✓                      |
| Brake Fluid                     | ^                      |
| Gunk Degreaser                  | ✓                      |
| WD-40                           | ✓                      |
| Genesolv                        |                        |
| Rho-Tro                         |                        |
| 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 04800BK11005. For testing on other printer models, please contact your Supplies Specialist representative.