



5319 Performance Wax

Thermal Transfer Ribbon

5319 Performance Wax

Description:

Our Performance Wax thermal transfer ribbon is a custom wax ink formulation that produces high quality normal and rotated bar codes up to 203.2mm per second. This ribbon produces a crisp black image with excellent high speed performance and outstanding visible light and infrared scannability. 5319 Performance Wax is designed primarily for coated paper stocks with good print quality on uncoated paper and Tyvek® (a spunbonded olefin).

Suggested Applications

- General purpose, high density bar code and text printing on paper label stocks.
- Especially recommended for printing rotated (ladder) bar codes, high resolution graphics and fine text characters.
- Quality thermal transfer printing at speeds up to 152.4mm per second.
- Printing on Tyvek®.

Technical Specifications

| | 5319 Performance Wax |
|------------------------------|--|
| Colour | Black |
| Ink Formulation | Wax |
| Base Film | Polyester |
| Caliper | 4.5 microns |
| Scanning Capabilities | IR and Visible Light |
| Ribbon Length | 450 metres / 91 metres / 362 metres / 256 metres / 74 metres / 156 metres |
| Stocked Widths (mm) | 24, 40, 60, 83, 89, 102, 110, 131, 154, 174, 220mm / 33, 56.9, 64, 84, 110mm / 33, 64, 84, 110mm / 64, 84, 110mm / 33, 64, 84, 110mm / 110, 165, 210mm |

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



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Tyvek® is a registered trademark of E.I. DuPont Corporation

Note: All products should be pre-tested to ensure that they meet all intended requirements of specific end-use applications. For testing of this ribbon, please order part number **05319BK08305**.

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LABELS

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2300 European Wax

Thermal Transfer Ribbon

2300 European Wax

Description:

Our latest European wax thermal transfer ribbon is a custom wax ink formulation, which provides good print quality and image on most European uncoated and coated paper facestocks. Provides good print quality on normal and rotated bar codes at speeds up to 304.8mm per second. Its low printhead energy requirements for image transfer and its superior backcoating make this a superb pure wax ribbon choice for all Zebra High End and Mid-Range printers.

Suggested Applications:

- General purpose labelling, giving high density barcode and text printing on paper label stocks
- Shipping and receiving
- Inventory tracking
- High Quality thermal transfer printing at speeds up to 152.4mm per second

Technical Specifications

| 2300 Wax | |
|-----------------------|---|
| Colour | Black |
| Ink Formulation | Wax |
| Base Film | Polyester |
| Calliper | 4.5 microns |
| Scanning Capabilities | IR and Visible Light |
| Ribbon Length | 450 metres / 91 metres / 900 metres |
| Stocked Widths | 40, 60, 83, 89, 110, 131, 156, 170 and 220mm / 64, 84, 110mm / 110, 170mm |

Recommended Storage Conditions:

23°F to 104°F (-5°C to 40°C) at 20% to 80% RH



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Note: All products should be pre-tested to ensure that they meet all intended requirements of specific end-use applications. For testing of this ribbon, please order part number **02300BK08305**.

2300 Bar Code Scannability

The below scannability testing was performed on a 140XII. Results are the average of 10 printed barcodes using the settings and label materials shown in the table.

| Label Facestock | Print Speed | Bar Code | Lab Results |
|--------------------------------|-------------|------------------------|--------------|
| Uncoated Paper Labels and Tags | 304.8mm/sec | 10 mil normal code | ANSI Grade B |
| Semi-coated Paper Labels | 304.8mm/sec | 10 mil normal code | ANSI Grade A |
| Coated Paper Labels and Tags | 304.8mm/sec | 10 mil normal code | ANSI Grade A |
| Uncoated Paper Labels and Tags | 152.4mm/sec | 15 mil rotated code | ANSI Grade A |
| Semi-coated Paper Labels | 152.4mm/sec | 15 mil rotated code | ANSI Grade A |
| Coated Paper Labels and Tags | 152.4mm/sec | 15 mil rotated code | ANSI Grade A |
| Uncoated Paper Labels and Tags | 152.4mm/sec | 10 mil rotated code | ANSI Grade B |
| Semi-coated Paper Labels | 152.4mm/sec | 10 mil rotated code | ANSI Grade B |
| Coated Paper Labels and Tags | 152.4mm/sec | 10 mil rotated code | ANSI Grade B |

Note: All products should be pre-tested to ensure that they meet all intended requirements of specific end-use applications. For testing of this ribbon, please order part number **02300BK08305**.



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2100 High Performance Wax Thermal Transfer Ribbon

Description:

Our resin-enhanced wax offers superior abrasion resistance when compared to conventional wax products. The 2100 ribbon provides excellent print quality on normal and rotated bar codes on coated and uncoated labels and tags. Also, its low printhead energy requirements for image transfer make it the ideal choice for high speed print up to 304.8mm/sec.

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

- PolyTrans 7A (GL)
- PolyTrans 8A (GL)
- PolyTrans 3000 Clear™ (UL Only)



Suggested Applications:

- General purpose labelling
- Shipping and receiving
- Inventory tracking
- Warehousing
- Retail labels / tags

Technical Specifications

| 2100 Wax | |
|-----------------------|--|
| Colour | Black |
| Ink Formulation | Wax |
| Base Film | Polyester |
| Calliper | 4.6 microns |
| Scanning Capabilities | IR and Visible Light |
| Ribbon Length | 450 metres (1476 feet) / 91 metres (298 feet) |
| Stocked Widths | 40, 60, 80, 89, 102, 106, 110, 131, 156, 174 & 220mm / 64, 84, 110mm |

Recommended Storage Conditions:

23°F to 104°F (-5°C to 40°C) at 20% to 80% RH



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2100 Bar Code Scannability

The below scannability testing was performed on a Z4000, 140Xi, 140XII, 90XII, 170Xi, 105S, and Stripe 500.

| Label Facestock | Print Speed | Bar Code | Lab Results |
|--------------------------------|-------------------|-----------------------------|----------------------|
| Coated Paper Labels and Tags | Up to 304.8mm/sec | 10 or 12 mil normal code | Typical ANSI Grade A |
| Synthetics | Up to 304.8mm/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 152.4mm/sec | 15 mil rotated code | Typical ANSI Grade B |
| 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 4000™ using 10 cycles (20 rubs) with the crockmeter.

| Test Solvents | Zebra 2100 |
|---------------------------------|------------|
| Glass Cleaner w/Ammonia | ✓ |
| Formula 409 | ✓ |
| Skydrol | x |
| Motor Oil | ✓ |
| Brake Fluid | ✓ |
| Gunk Degreaser | ✓ |
| WD-40 | x |
| Genesolv | |
| Rho-Tron | |
| Hexane | |
| Xylene | |
| Gasoline | x |
| Acetone | |
| Alcohol (91% Isopropyl Alcohol) | ✓ |

*Trademarks of the respective companies.

✓ Scanning receives a "B" ANSI grade or better



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- 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 **2100BK08005**.



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3200 Premium Wax/Resin

Thermal Transfer Ribbon

Description:

The Zebra 3200 premium wax/resin thermal transfer ribbon is a special ink formulation for use with all industrial and desktop Zebra thermal transfer printers. This versatile ribbon provides outstanding print quality on a wide range of materials, and provides smear and scratch resistance on Zebra paper and synthetic labelstocks. In addition, this ribbon offers good resistance against many everyday chemicals, resulting in excellent staying power and durability in harsh environments.

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

- Z-Xtreme™ 4000T White High-Tack
- Z-Xtreme™ 4000T Silver High-Tack
- Z-Xtreme™ 4000T White



Suggested Applications:

- When one ribbon is preferred for multiple, industrial labelling applications
- Box, pallet, retail and shelf-edge labelling
- Outdoor product labelling applications
- Labels subject to extreme abrasion or friction
- Labels exposed to solvents, steam, alkali or acid solutions

Technical Specifications

| 3200 Premium Wax/Resin | |
|------------------------------|---|
| Colour | Black |
| Ink Formulation | Wax/Resin |
| Base Film | Polyester |
| Base Film Caliper | 4.5 microns |
| Scanning Capabilities | IR and Visible Light |
| Ribbon Length | 450 metres / 362 metres / 91 metres / 74 metres |
| Stocked Widths (mm) | 40, 60, 80, 89, 102, 110, 131, 156, 174, 220mm / 64, 84, 110mm / 33, 56.9, 64, 84, 110mm |

Recommended Storage Conditions:

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

3200 Bar Code Scannability

The below scannability testing was performed on Z4M, 140XiII, 90XiII, 170XiIII, 105SL and Stripe 600.

| Label Facestock | Print Speed | Bar Code | Lab Results |
|--------------------------------|-------------------|--------------------------|----------------------|
| Coated Paper Labels and Tags | up to 254mm/sec | 10 or 12 mil normal code | Typical ANSI Grade A |
| Synthetics | up to 203.2mm/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 C |
| Coated Paper Labels and Tags | up to 254mm/sec | 15 mil rotated code | Typical ANSI Grade B |
| Synthetics | up to 203.2mm/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 3200 |
|---------------------------------|------------|
| Glass Cleaner w/Ammonia | ✓ |
| Formula 409 | ✓ |
| Motor Oil | |
| Brake Fluid | X |
| Gunk Degreaser | X |
| WD-40 | X |
| Genesolv | |
| Hexane | X |
| Xylene | |
| 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 ribbon on Zebra industrial mid-range and high-end printers, please order part number **3200BK08005**. For a full, up-to-date list of parts available for all Zebra printers, please contact your authorized Zebra reseller.

3400 High Performance Wax/Resin Thermal Transfer Ribbon

Description:

A wax/resin formulation for Zebra industrial printers, offering excellent print quality on a wide range of coated and uncoated papers, and many matt synthetic facestocks. This ribbon excels when rotated barcodes are required. This high performance wax/resin ribbon also provides good abrasion and some solvent resistance, and is competitively priced, offering an economical solution to many industrial and retail labelling applications.

UL Recognized with the following materials:



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

Suggested Applications:

- Shelf-edge labels and tags
- Box and Pallet labelling
- Inventory labeling
- Industrial labels with medium life expectancy
- Labels exposed to steam, alkali or acid solutions

Technical Specifications

| 3400 High Performance Wax/Resin | |
|---------------------------------|---|
| Colour | Black |
| Ink Formulation | Wax/Resin |
| Base Film | Polyester |
| Base Film Caliper | 4.5 microns |
| Scanning Capabilities | IR and Visible Light |
| Ribbon Length | 450 metres (1476 feet) |
| Stocked Widths | 40, 60, 83, 89, 102, 110, 131, 156, 174 & 220mm |

Recommended Storage Conditions:

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

3400 Bar Code Scannability

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

| Label Facestock | Print Speed | Bar Code | Lab Results |
|--------------------------------|-------------------|------------------------|----------------------|
| Coated Paper Labels and Tags | up to 203.2mm/sec | 10 mil normal code | Typical ANSI Grade A |
| Coated Matt 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 Matt Synthetics | up to 152.4mm/sec | 15 mil rotated code | Typical ANSI Grade B |

All products should be pre-tested to ensure they meet all intended requirements of specific end-use applications. For testing of this product, please order sample ribbon **3400BK08305**. For a full, up-to-date list of available widths, please contact your authorized Zebra reseller.



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5095 High Performance Resin

Thermal Transfer Ribbon

Description:

Our High Performance Resin ribbon formulation produces images resistant to most harsh environments: smearing, moisture, abrasion, extreme temperature and chemicals, when printed on Zebra's synthetic label and tag materials. The low energy requirements for this ribbon will allow for excellent print quality, even when very small fonts are required, and high print speeds are possible.

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
- Z-Ultimate[®] 3000T Yellow (UL only)



Suggested Applications

- Labels exposed to heat, steam, solvents, abrasion and friction
- Outdoor labelling applications in extreme environments.
- Chemical container labels.
- Automotive labels
- Industrial rating plates

Technical Specifications

| 5095 Performance 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 / 362 metres / 91 metres / 74 metres |
| Stocked Widths (mm) | 40, 60, 83, 89, 110, 131, 154, 174 & 220mm / 64, 84, 110mm / 33, 56.9, 64, 84, 110mm |

Recommended Storage Conditions:

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



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5095 Bar Code Scannability

The below scannability testing was performed on 140X/III, 90X/III, 170X/III, 105SL, and Z4Mplus.

| Label Facestock | Print Speed | Bar Code | 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 203.2mm/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 B |
| 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 5095 |
|---------------------------------|------------|
| Glass Cleaner w/Ammonia | ✓ |
| Formula 409 | ✓ |
| Skydrol | |
| Motor Oil | ✓ |
| Brake Fluid | X |
| Gunk Degreaser | ✓ |
| WD-40 | ✓ |
| Genesolv | |
| Rho-Tron | |
| Hexane | ✓ |
| Xylene | |
| 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 ribbon on Zebra industrial mid-range and high-end printers, please order part number **05095BK08305**. For a full, up-to-date list of parts available for all Zebra printers, please contact your authorized Zebra reseller.



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