

4800 Performance Resin

High quality resin ribbon for use on matte and gloss synthetics

The Zebra 4800 Performance Resin Ribbon is engineered to deliver unparalleled print quality and reliability for your most critical identification needs. Designed specifically for thermal transfer printing on matte and gloss synthetic materials this premium ribbon produces exceptionally sharp, high-resolution text and dense barcodes.



Built to withstand the toughest industrial conditions, the 4800 ribbon creates a permanent bond that will not fade, degrade, or fail over time. It provides outstanding physical durability with supreme resistance to smearing, scratching, and heavy abrasion, protecting vital information during handling, shipping, and long-term storage.

Furthermore, its advanced resin formulation offers superior defense against a wide array of harsh chemicals, including alcohol, oils, and industrial solvents, ensuring reliable performance in rugged outdoor environments, laboratories, automotive facilities, and manufacturing plants.

This durability makes it the ideal ribbon for a multitude of specialized and intensive applications. Whether you are managing chemical drum and container labeling (HazCom/GHS), tracking high-value assets, or identifying circuit boards and small electronic components, the 4800 Performance Resin Ribbon delivers unmatched longevity and peace of mind.

Not all thermal ribbons are created equal. There are hundreds of different ribbon formulations in the market. That is why Zebra's Supplies R&D Team has tested and selected only those ribbons that deliver the best print quality and durability. To get the Zebra name, each ribbon must pass a series of print quality and durability tests.

When you purchase Zebra thermal ribbons you can rest assured that the:

- Print will be readable and scannable every time.
- Print will withstand the environment in which it will be used in.
- Back coating will not cause premature printhead failure.

4800 Performance Resin

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

Specifications

Technical Specifications

Color	Black
Base Film	Polyester
Base Film Caliper	4.5 microns
Total Caliper	9 microns ±10%
Scanning Capabilities	IR and Visible Light

Product Performance and Suitability

Recommended storage conditions (before use)	1 year duration when stored at 5°C to 35°C at 20% to 80% RH
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Ribbon Compliance

REACH/ Substances of Very High Concern (SVHC)	Yes
RoHS	Yes
Dodd-Frank Act (Conflict Minerals)	Yes
Toxic Substances Control Act of 1976	Yes
Carcinogenic, Mutagenic and Reprotoxic, or Substances Toxic Substances 1976/769/ EC	Yes
California Proposition 65	Yes
FDA 21 CFR Part 175.300 – Indirect Food Contact – Resinous and Polymeric Coatings	Yes
European Food Directive 1935/2004/EC	Yes
Foodstuffs and Consumer Goods Act and LFGB approved	Yes
Halogen free	Yes
Latex free	No
Animal derivatives free	No
BP Free	Yes

Label Facestock: Coated paper labels and tags

Print Speed	Up to 101.6mm/sec
Barcode	15 mil rotated code
Lab Results	Typical ANSI Grade C

Label Facestock: Synthetics

Print Speed	Up to 101.6mm/sec
Barcode	15 mil rotated code
Lab Results	Typical ANSI Grade B

4800 Barcode Scannability

Test Solvents	Zebra 4800 Performance
Glass Cleaner w/Ammonia	Scanning received a “B” ANSI grade or above.
Formula 409	Scanning received a “B” ANSI grade or above.
Skydrol	Barcode does not scan
Motor Oil	Scanning received a “B” ANSI grade or above.
Brake Fluid	Scanning received a “C” to “F” ANSI grade.
Gunk Degreaser	Scanning received a “B” ANSI grade or above.
WD-40	Scanning received a “B” ANSI grade or above.
Genesolv	Barcode does not scan
Rho-Tro	Barcode does not scan
Hexane	Scanning received a “B” ANSI grade or above.
Xylene	Barcode does not scan
Gasoline	Scanning received a “C” to “F” ANSI grade.
Acetone	Barcode does not scan
Alcohol (90% Isopropyl Alcohol)	Scanning received a “B” ANSI grade or above.

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.
*Specifications are subject to change without notice.

Markets and Applications

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

4800 Barcode Scannability. Label
Facestock: Coated paper labels and tags

Print Speed	Up to 152.4mm/sec
Barcode	10 or 12 mil normal code
Lab Results	Typical ANSI Grade A

Label Facestock: Synthetics

Print Speed	Up to 152.4mm/sec
Barcode	10 or 12 mil normal code
Lab Results	Typical ANSI Grade A