



## Thermal Transfer Ribbon Technical Data Sheet

### TR4500 Premium Near Edge Wax/Resin

#### Product Description

Part of a complete line of superior-performing near edge product solutions, TR4500 is the best ribbon on the market for thermal transfer printers equipped with near edge or corner edge printheads. TR4500 is designed with DNP's specially formulated backcoat technology for printhead protection as well as DNP's exclusive anti-static properties for easy handling and extra printhead protection. This ribbon prints dark images at high speeds and low energy settings on a wide variety of label and tag stocks from paper to low-end synthetics.

#### Recommended Applications



ASSET TRACKING



BEVERAGES



CONDIMENTS



COSMETICS



FLEXIBLE PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



MEATS & CHEESES



MEDICAL DEVICES



OUTDOOR



PARTS PACKAGING



PHARMACEUTICAL



PRODUCE



PRODUCT ID



RETAIL



SHELF



SHIPPING



SNACK FOODS

#### Recommended Substrates

Coated/uncoated papers and tags, gloss paper, polyethylene, polyolefin, Tyvek®, Tyvek Brillion®, Kimdura, Valeron®, Polyart®

#### Performance Characteristics

- Halogen-Free
- Prints excellent images on a wide variety of label and tag stocks
- Anti-static for easy handling and extended printhead life
- DNP's specially formulated backcoating for printhead protection
- Unbeatable edge definition for dark, dense images and improved scan rates

Visit us at [www.dnpribbons.com](http://www.dnpribbons.com)

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#### Ribbon Properties

Description	Result	Test Method
Ink	Wax/Resin	
Color	Black	Visual
Total Thickness	8.2 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.4 ± 0.2µ	Micrometer
Ink Melting Point	84°C (183°F)	Differential Scanning Calorimeter

#### Durability of Printed Image

Label Stock: Coated Paper

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.86	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 100 Cycles @ 500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 50 Cycles @ 200 Grams with Stainless Steel Pointed Tip

\*American National Standard Institute (ANSI) Grade Levels A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average, and F is poor.

#### Conversion Chart

Millimeters (mm) to Inches = mm ÷ 25.4	Inches to Millimeters (mm) = Inches ÷ 0.03937
Meters (m) to Feet (ft) = m ÷ 0.3048	Feet (ft) to Meters (m) = Feet ÷ 3.2808
C° to F° = (1.8 X C°) + 32 = F°	F° to C° = (F° ÷ 1.8) - 17.77
Thousand square inches (MSI) to m <sup>2</sup> = MSI X 0.645	MSI = m <sup>2</sup> ÷ 0.645

The information on this data sheet was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.

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PAYMENTS



## About us

- Legacy Technology Services is a leading nationwide provider of mobile computing, barcode, printers and point of sale equipment and services.
- For over a decade, thousands of clients across North America have trusted us to provide equipment from leading manufacturers backed by the services to support them.

## Latest Hardware from top manufacturers

- Legacy handles virtually every major manufacturer of mobile computing, barcoding and point of sale equipment.

## Expert Repair and Maintenance services

- Legacy is one of the best repair facilities in North America

## Discontinued product sourcing

- They don't make it anymore? Our inventory also includes manufacturer close-outs and discontinued equipment to support our clients legacy infrastructure.

## Trade-in and Disposal services

- That old equipment laying around your facility may still have some value. Legacy routinely purchases equipment from our clients around the globe.
  - Data destruction
  - Hardware disposal
  - Auditing services

## Dedicated client account team

- Dedicated, highly trained account managers are here to answer all your questions and provide top notch service.

## Equipment rental services

- Sometimes renting is a better solution, Legacy's huge rental inventory provides the equipment you need for temporary needs and projects.



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