



## 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



#### 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

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

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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 ± 0.4µ	Micrometer
Ink Thickness	1.4 ± 0.3µ	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

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