



## Thermal Transfer Ribbon Technical Data Sheet

# Signature Series™ Wax/Resin

## Product Description

Signature Series™ Wax/Resin ribbons print on paper and low-end synthetic tags and labels, providing smudge-resistant images. In addition, DNP's proprietary technology dissipates static, resulting in hassle-free, low maintenance thermal transfer solutions. Signature Series™ Wax/Resin has DNP's unbeatable Edge Definition™ for dark, dense images and improved scan rates.

## Recommended Applications



AUTOMOTIVE



FLEXIBLE PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



OUTDOOR



PARTS PACKAGING



PHARMACEUTICAL



PRODUCT ID



RETAIL



RFID



SHELF



SHIPPING



SIGNAGE

## Recommended Substrates

Gloss paper, polypropylene, top-coated vinyl, polyethylene, polystyrene, coated/uncoated Valeron®, polyolefin, coated/uncoated V-max®, Tyvek®, Tyvek Brillion®

## Performance Characteristics

- Halogen-Free
- Prints durable, smudge-resistant images
- Available in SmartPaks®
- Excellent rotated bar codes
- Dissipates static, resulting in hassle-free, low maintenance thermal transfer solutions
- Prints dark images on paper and low-end synthetic tags and labels
- Industry leading Edge Definition™ for clean, durable, and dense bar codes

*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 notification.*

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### Ribbon Properties

Description	Result	Test Method
Ink	Wax/Resin	
Color	Black	Visual
Total Thickness	7.9 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.1 ± 0.2µ	Micrometer
Ink Melting Point	83°C (181°F)	Differential Scanning Calorimeter

### Durability of Printed Image

Label Stock: Polypropylene

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.80	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 50 Cycles @ 500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 20 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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