

DNP

Signature Series™



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.

Visit us at www.sdzsupply.com

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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 m² = MSI X 0.645	MSI = m² ÷ 0.645

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