DNP Signature Series™

THE POWER OF ONE™

Thermal Transfer Ribbon Technical Data Sheet

Signature Series™ Resin

Product Description

DNP's premium Signature Series™ Resin product delivers excellent smudge and scratch-resistant performance in your most demanding applications. It can withstand extreme heat and UV exposure and, in many cases, eliminates the need for overlaminates. This ribbon features DNP's specially formulated SmoothCoat® backcoating for printhead protection as well as DNP's exclusive anti-static properties for easy handling and extra printhead protection.

Recommended Applications

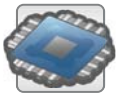


AGENCY


ASSET TRACKING


AUTOMOTIVE


CHEMICAL DRUM


CIRCUIT BOARD


ELECTRONIC COMPONENTS


HEALTHCARE


PHARMACEUTICAL


RFID


SECURITY


SHELF

Recommended Substrates

Top-coated vinyl, polyimide, polyesters

Performance Characteristics

- Often eliminates the need for overlaminates
- Durable, scratch resistant performance
- Anti-static for easy handling and extended printhead life
- Features DNP's SmoothCoat® backcoat for printhead protection
- Available in SmartPaks®
- Provides transferability to polyester films, vinyl, and PVC cards
- Withstands extreme heat and UV exposure

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 http://dnpribbons.com/Singapore/

DNP Singapore Pte. Ltd.
4 Pandan Crescent
Singapore 128475
TEL: +65.6469.7611
FAX: +65.6466.8486
EMAIL: ims@dnps.com.sg

DNP Global Locations
USA
Japan
Netherlands
Singapore

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Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	6.7 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	1.9 ± 0.2µ	Micrometer
Ink Melting Point	100°C (212°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Top-coated Polyester Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.60	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^2 = MSI X 0.645	MSI = m^2 ÷ 0.645

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