TR4070

Thermal Transfer Ribbon Technical Data Sheet

TR4070 Classic Resin

Product Description

DNP premium resin ribbons provide durable, scratch-resistant images on preprinted or treated label surfaces for your most demanding applications. TR4070 carries widespread agency approval, including meeting the FDA's requirements for indirect food contact. This ribbon contains 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. Our TR4070 eliminates the need for overlaminates in most cases.

Recommended Applications

AGENCY


ASSET TRACKING


AUTOMOTIVE


CHEMICAL DRUM


CIRCUIT BOARD


ELECTRONIC COMPONENTS


HAZARDOUS


HEALTHCARE


PHARMACEUTICAL


RFID


SECURITY


SHELF

Recommended Substrates

Top-coated vinyl, polyimide, polyesters

Performance Characteristics

- Halogen Free
- Eliminates the need for overlaminates in many cases
- Excellent smudge and scratch resistance
- Anti-static for easy handling and extended printhead life
- DNP's specially formulated backcoating for printhead protection
- UL recognized/CSA approved
- Unbeatable Edge Definition™ ensuring 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 notification.

Visit us at www.dnpribbons.com

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DNP Global Locations
USA
Japan
Netherlands
Singapore

DNP

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Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	6.8 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	2.0 ± 0.2µ	Micrometer
Ink Melting Point	103°C (217°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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