



Thermal Transfer Ribbon Technical Data Sheet

TRX-50 General Purpose Wax/Resin

Product Description

TRX-50 features a SmoothCoat® backcoat and is the only wax/resin ribbon on the market backed by a 4 Million Linear Inch Guarantee. TRX-50 has a unique ink formulation that dissipates static and is a versatile and durable wax/resin ribbon that has superior print quality on low-end synthetics. TRX-50 prints at low temperatures and high speeds and has unbeatable edge definition with the darkest images possible from a general purpose ribbon.

Recommended Applications



ASSET TRACKING



AUTOMOTIVE



FLEXIBLE PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



MEDICAL DEVICES



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
- Backed by our 4 Million Linear Inch Guarantee
- Prints at high speeds (12 IPS) delivering crisp, rotated bar codes
- Features a SmoothCoat® backcoat
- Anti-static for easy handling and extended printhead life
- Superior print quality on low-end synthetics
- Industry leading edge definition for clean, durable, and dense bar codes

Visit us at www.dnpribbons.com

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Global Locations
USA
Japan
Europe
Asia



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Ribbon Properties

Description	Result	Test Method
Ink	Wax/Resin	
Color	Black	Visual
Total Thickness	8.1 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.3 ± 0.2µ	Micrometer
Ink Melting Point	85°C (185°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 ² = MSI X 0.645	MSI = m ² ÷ 0.645

The information on this data sheet was obtained in DNP 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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