DNP

TR5050

THE POWER OF ONE™

Thermal Transfer Ribbon Technical Data Sheet

TR5050 High Performance Wax/Resin

Product Description

TR5050 is the first universal product to combine the flexibility of an all-purpose ribbon with the durability of a wax/resin ribbon. TR5050's unsurpassed technology provides the darkest, most durable image possible from a general-purpose ribbon. It allows you to gain additional wax/resin ribbon business with an economical product.

Recommended Applications

Recommended Substrates

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

Performance Characteristics

- Prints at high speeds (12 IPS) delivering crisp, rotated bar codes
- Features DNP's 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.dnpimagingcomm.asia

DNP Singapore Pte. Ltd.
4 Pandan Crescent
Singapore 128475
TEL: +65.6469.7611
FAX: +65.6466.8486
EMAIL: utsumi-n@dnp.imgcomm.asia

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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