



Thermal Transfer Ribbon Technical Data Sheet

TR4055™ Standard Wax

Product Description

DNP's newest wax product features a blend of waxes and a unique resin that are combined in an ink that flows smoothly at low print energy to give uniform coverage on lower end substrates. TR4055™ also incorporates technology designed to control and dissipate static charges and a backcoat proven to protect your printhead. Specially formulated to provide excellent performance in a broad range of applications, TR4055™ sets the standard for everyday thermal transfer printing. In addition, TR4055™ Standard Wax is coated and converted with pride in Mt. Pleasant, PA.

Recommended Applications



GENERAL



INVENTORY



LOGISTICS



PARTS
PACKAGING



PRODUCT ID



RETAIL



RFID



SHELF



SHIPPING



SIGNAGE

Recommended Substrates

Coated/uncoated paper & tag stocks

Performance Characteristics

- Designed to provide excellent performance in everyday applications on the most commonly used substrates; including coated and uncoated paper and tags
- Good smudge and scratch resistance
- Capable of print speeds up to 6-8 IPS
- Dark glossy printed image
- Halogen-free

Visit us at www.dnpribbons.com

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DNP Global Locations

USA

Japan

Netherlands

Singapore



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Ribbon Properties

Description	Result	Test Method
Ink	Wax	
Color	Black	Visual
Total Thickness	7.8 ± 0.5µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Ink Thickness	3.0 ± 0.2µ	Micrometer
Ink Melting Point	70°C (158°F)	Differential Scanning Calorimeter

Durability of Printed Image

Label Stock: Coated Paper

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	> 1.70	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	m² = MSI ÷ 0.645

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.

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