



## Thermal Transfer Ribbon Technical Data Sheet

### TRX-55 Premium Wax/Resin

#### Product Description

This premium wax/resin formulation is designed to print on a wide variety of receiving materials, including coated and uncoated paper labels and tags, varnished label stock, and films. TRX-55 offers excellent bar code scanning with sharp, reliable images at a wide variety of printing speeds. TRX-55 is an extremely versatile all-purpose wax/resin that will out-perform other ribbons in extreme environments. Powerful resistance against smearing and chemicals makes TRX-55 a perfect choice for your demanding environments.

#### Recommended Applications



AGENCY



ASSET TRACKING



AUTOMOTIVE



FLEXIBLE PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



MEDICAL DEVICES



OUTDOOR



PARTS PACKAGING



PHARMACEUTICAL



PRODUCT ID



RETAIL



SHELF



SHIPPING



SIGNAGE



TEXTILE

#### Recommended Substrates

Coated/uncoated tags, gloss paper, polypropylene, polyethylene, coated/uncoated papers, top-coated vinyl, polystyrene, polyolefin, Tyvek®, Tyvek Brillion®

#### Performance Characteristics

- Halogen-Free
- Ideal for printing on coated and uncoated paper labels and tags, varnished label stock, and films
- Sharp and reliable print quality at a wide variety of print speeds
- Anti-static for easy handling and extended printhead life
- Excellent bar code scannability
- Superior smudge and chemical resistance
- Extreme versatility
- UL recognized

Visit us at [www.dnpribbons.com](http://www.dnpribbons.com)

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#### Ribbon Properties

Description	Result	Test Method
Ink	Wax/Resin	
Color	Black	Visual
Total Thickness	8.8 ± 0.5μ	Micrometer
Base Film Thickness	4.8 ± 0.3μ	Micrometer
Ink Thickness	4.0 ± 0.2μ	Micrometer
Ink Melting Point	87°C (189°F)	Differential Scanning Calorimeter

#### Durability of Printed Image

Label Stock: Polypropylene

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 m <sup>2</sup> = MSI X 0.645	MSI = m <sup>2</sup> ÷ 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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