



# LABELS DIRECT

## Thermal Transfer Ribbons



# *Signature Series*™ Wax/Resin

## Product Description

Signature Series™ Wax/Resin ribbons print on paper and low-end synthetic tags and labels, providing smudge-resistant images. In addition, our proprietary technology dissipates static, resulting in hassle-free, low maintenance thermal transfer solutions. Signature Series™ Wax/Resin has unbeatable Edge Definition™ for dark, dense images and improved scan rates.

## Recommended Applications



AUTOMOTIVE



FLEXIBLE  
PACKAGING



GENERAL



HEALTHCARE



HORTICULTURE



INVENTORY



LOGISTICS



OUTDOOR



PARTS  
PACKAGING



PHARMACEUTICAL



PRODUCT ID



RETAIL



RFID



SHELF



SHIPPING



SIGNAGE

## Recommended Substrates

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

## Performance Characteristics

- Prints durable, smudge-resistant images
- Available in SmartPaks®
- Excellent rotated bar codes
- Dissipates static, resulting in hassle-free, low maintenance thermal transfer solutions
- Prints dark images on paper and low-end synthetic tags and labels
- Industry leading Edge Definition™ for clean, durable, and dense bar codes

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

Labels Direct, Inc.

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# *Signature Series*™ Wax/Resin

## Ribbon Properties

| Description         | Result       | Test Method                       |
|---------------------|--------------|-----------------------------------|
| Ink                 | Wax/Resin    |                                   |
| Color               | Black        | Visual                            |
| Total Thickness     | 7.9 ± 0.5µ   | Micrometer                        |
| Base Film Thickness | 4.8 ± 0.3µ   | Micrometer                        |
| Ink Thickness       | 3.1 ± 0.2µ   | Micrometer                        |
| Ink Melting Point   | 83°C (181°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 @<br>500 Grams with Cotton Cloth                |
| Scratch Resistance | A*     | Colorfastness Tester - 20 Cycles @<br>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 our 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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