

# TR5050

# SONY



P r e m i u m   W a x / R e s i n



TR5050 is the first universal product to combine the flexibility of a general-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.

## Specific Features

- Prints at high speeds (12 ips+)
- Prints at high resolution (400 dpi+)
- Excellent rotated bar codes
- Features Sony's SmoothCoat™ backcoat
- UL recognized

## Recommended Applications

Blood bags, pharmaceutical labels, retail tags, shipping labels, direct package printing (poly-bags), tote labels.



**Shipping Labels**  
Sony ribbons deliver crisp rotated bar codes on coated and uncoated tag and label stocks.



**Direct Package Printing**  
Scratch and smudge resistance make Sony ribbons ideal for direct printing on flexible packaging.



**Storage Labels**  
Sony ribbons are a durable, cost-effective solution for your barcoding applications.



**Retail Package Printing**  
Sony's high-quality images make point-of-purchase thermal transfer printing possible.

Certified ISO 9001 / ISO 14001 by



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# TR5050

Premium Wax / Resin

Ribbon Property		
Description	Specification	Measurement Method
Ink Material	Wax/Resin	—
Total Thickness (µm)	8.1 ± 0.5	Micrometer
Base Film Thickness (µm)	4.8 ± 0.4	Micrometer
Ink Thickness (µm)	3.1 ± 0.3	Micrometer
Ribbon Transmission Density	≥ 1.6	Densitometer
Print Density	≥ 1.8	Densitometer

Durability of Printed Image	
Label Stock: Coated paper	
Print Speed: 6 IPS	Print Density: 1.8
Smudge Resistance: ANSI A <sup>1</sup>	Scratch Resistance: ANSI A <sup>1</sup>
Test Equipment: Colorfastness Tester	
Conditions: Smudge Test: 50 cycles @ 500 grams with cotton cloth	
Scratch Test: 20 cycles @ 200 grams with stainless steel pointed tip	
<sup>1</sup> Represents the American National Standard Institute (ANSI) Grade measured at the given conditions. Grade levels are 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 = $\text{mm} \div 25.4$	Inches to mm = $\text{Inches} \div 0.03937$
Meters (m) to Feet (ft) = $\text{m} \div 0.3048$	Feet to Meters = $\text{Feet} \div 3.2808$
$\text{C}^\circ \text{ to } \text{F}^\circ = (1.8 \times \text{C}^\circ) + 32 = \text{F}^\circ$	$\text{F}^\circ \text{ to } \text{C}^\circ = (\text{F}^\circ \div 1.8) - 17.77 = \text{C}^\circ$
Thousand square inches (MSI) to m <sup>2</sup> = $\text{msi} \times 0.645$	MSI = $\text{m}^2 \div 0.645$

Recommended Applications
Blood bags, pharmaceutical labels, retail tags, shipping labels, direct package printing (poly-bags), tote labels, horticulture labels.

The information on this data sheet was obtained in Sony Chemicals Corporation laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.

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