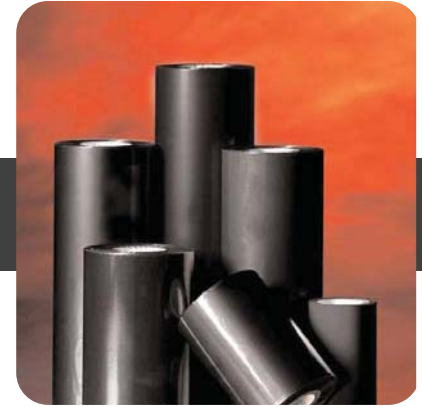




## BLACK TIE WAX / RESIN

When Your Barcodes have to look their very best...

The Black Tie Wax/Resin Ribbon is the first universal product to combine the flexibility of a general-purpose ribbon with the durability of a wax/resin ribbon. Black Tie'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 SmoothCoat™ backcoat
- UL recognized

### 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 =  $\text{Feet} \div 3.2808$   
 $\text{C}^{\circ}$  to  $\text{F}^{\circ} = (1.8 \times \text{C}^{\circ}) + 32 = \text{F}^{\circ}$   
 $\text{F}^{\circ}$  to  $\text{C}^{\circ} = (\text{F}^{\circ} \div 1.8) - 17.77 = \text{C}^{\circ}$   
 Thousand square inches (MSI) to  $\text{m}^2 = \text{msi} \times 0.645$   
 $\text{MSI} = \text{m}^2 \div 0.645$

### RIBBON PROPERTY

Description	Specification	Measurement Method
Ink Material	Wax / Resin	—
Total Thickness ( $\mu\text{m}$ )	$8.1 \pm 0.5$	Micrometer
Base Film Thickness	$4.8 \pm 0.4$	Micrometer
Ink Thickness ( $\mu\text{m}$ )	$3.1 \pm 0.3$	Micrometer
Ribbon Transmission Density	$\geq 1.6$	Densitometer
Print Density	$\geq 1.8$	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.

### RECOMMENDED APPLICATIONS

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



#### Shipping Labels

Black Tie ribbons deliver crisp rotated bar codes on coated and uncoated tag and label stocks.



#### Direct Package Printing

Scratch and smudge resistance make Black Tie ribbons are ideal for direct printing on flexible polybags.



#### Storage Labels

Black Tie ribbons are a durable, cost-effective solution for your barcoding applications.



#### Retail Package Printing

Black Tie's high-quality images make point-of-purchase thermal transfer printing possible.

**BLACK TIE RIBBONS**  
 Are Available Exclusively Thru

**Call Us**  
**1.800.397.9783**

**Visit Us**  
**www.systemid.com**