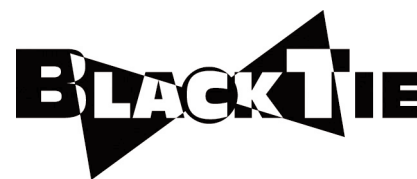


# When Your Barcodes have to look their very best...



## Black Tie General Purpose Wax



The Black Tie General Purpose Wax Ribbon provides unparalleled printhead protection, while delivering the darkest, most durable images. In addition, the general purpose wax prints on a wide range of substrates at high speeds and low temperatures.

### Specific Features

- Delivers darker images
- Prints on a wider variety of substrates from uncoated papers to mid-range synthetic films
- Prints at high speeds (12 IPS) delivering crisp, rotated bar codes
- Dissipates static
- Images at low print temperatures
- Superior print quality on flood-coated labels
- Enhanced smudge and scratch resistance

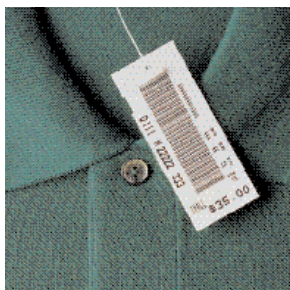
### Recommended Applications

Shipping labels, retail tags, pharmaceutical labels, ingredient labels, general ticketing, shelf labels, horticulture labels, warning labels, blood bags, drum labels, polybags and machinery part labels



#### Shipping Labels

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



#### Retail Tags

Black Tie ribbons will not stain fabrics when steamed, ironed or stored for extended periods of time.



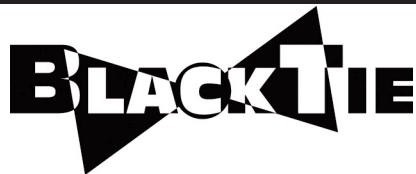
#### Pharmaceutical Labels

Black Tie ribbons provide dark, durable images for critical applications.



#### Storage Labels

Black Tie ribbons offer cost-effective solutions on a wide variety of substrates.



**Black Tie General Purpose Wax Ribbon**

Ribbon Property		
Description	Specification	Measurement Method
Ink Material	Resin enhanced wax	—
Total Thickness (µm)	7.9 ± 0.5	Micrometer
Base Film Thickness (µm)	4.8 ± 0.4	Micrometer
Ink Thickness (µm)	2.8 ± 0.3	Micrometer
Ribbon Transmission Density	≥1.45	Densitometer
Print Density	≥1.70	Densitometer

Durability of Printed Image	
Label Stock: Coated paper	
Print Speed: 6 IPS	Print Density: 1.79
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 Standards 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 = mm ÷ 25.4	Inches to mm = Inches ÷ 0.03937
Meters (m) to Feet (ft) = m ÷ 0.3048	Feet to Meters = Feet ÷ 3.2808
C° to F° = (1.8 x C°) + 32 = F°	F° to C° = (F°÷1.8) -17.77 = C°
Thousand square inches (MSI) to m <sup>2</sup> = msi x 0.645	MSI = m <sup>2</sup> ÷ 0.645

Recommended Applications
Shipping labels, retail tags, pharmaceutical labels, ingredient labels, general ticketing, shelf labels, horticulture labels, warning labels, blood bags, drum labels, polybags and machinery part labels

**Black Tie ribbons are available exclusively through:**



www.systemid.com  
800-397-9783



www.system3x.com  
888-397-9783