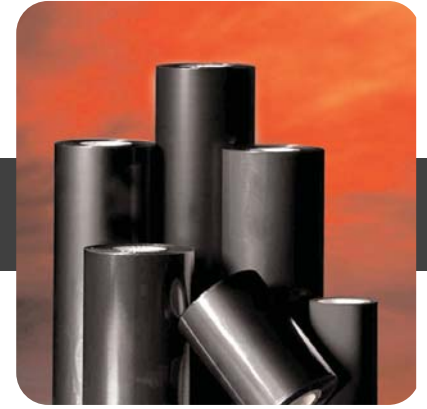




## BLACK TIE SPECIALITY RESIN

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

The fastest growing resin product on the market, Black Tie Specialty Resin Ribbon is a premium ribbon that carries widespread agency approvals. It can also withstand an unprecedented 14 years of UV exposure (confirmed by accelerated UV tests).



### SPECIFIC FEATURES

- Eliminates the need for overlaminates in many cases
- Excellent smudge and scratch resistance
- Provides transferability to polyester films, vinyl and PVC cards
- UL/CSA recognized
- AGA/CGA recognized
- Meets FDA requirements for indirect food contact
- Heat resistance up to 400°F

### RIBBON PROPERTY

Description	Specification	Measurement Method
Ink Material	Resin	—
Total Thickness (µm)	6.8 ± 0.5	Micrometer
Base Film Thickness (µm)	4.8 ± 0.4	Micrometer
Ink Thickness (µm)	1.5 ± 0.4	Micrometer
Ribbon Transmission Density	0.75 – 1.25	Densitometer
Print Density	≥ 1.6	Densitometer

### DURABILITY OF PRINTED IMAGE

Label Stock: Topcoated White Polyester

Print Speed: 6 IPS      Print Density: 1.92

Smudge Resistance: ANSI A<sup>1</sup>      Scratch Resistance: ANSI A<sup>1</sup>

Highly resistant to rubbing with isopropyl alcohol, Formula 409, and mineral spirits.

Test Equipment: Colorfastness Tester

Conditions:      Smudge Test: 100 cycles @ 500 grams with cotton cloth  
Scratch Test: 50 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

Steel tags, water heater labels, ID cards, automotive labels, drum labels, component labels, electronic labeling.



**CD and Diskette Labels**  
Excellent print clarity and smudge resistant images are ideal for CD and diskette labels.



**Chemical Drum Labels**  
Black Tie premium resin ribbons provide durable, scratch-resistant images on preprinted or treated label surfaces for your most demanding applications.



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



**Shelf Labels**  
Clear, crisp Black Tie printed images are easily seen and read in retail applications.

### 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 × C°) + 32 = F°  
 F° to C° = (F° - 32) ÷ 1.8 = C°  
 Thousand square inches (MSI) to m<sup>2</sup> = msi × 0.645  
 MSI = m<sup>2</sup> ÷ 0.645

**BLACK TIE RIBBONS**  
Are Available Exclusively Thru



Call Us  
**1.800.397.9783**

Visit Us  
**www.systemid.com**