

# TR4070

# SONY



Specialty Resin



The fastest growing resin product on the market, TR4070 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
- Features Sony's SmoothCoat™ backcoat
- Heat resistance up to 400°F

## 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

Sony premium resin ribbons provide durable, scratch-resistant images on preprinted or treated label surfaces for your most demanding applications.



### Pharmaceutical Labels

Sony ribbons provide dark, durable images for critical applications.



### Shelf Labels

Clear, crisp Sony printed images are easily seen and read in retail applications.

Certified ISO 9001 / ISO 14001 by



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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.	

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 = $\text{m}^2 \div 0.645$

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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.

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