

TR4070

SONY

Ribbon Data Sheet



Speciality 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.

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Specialty Resin

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 ¹	Scratch Resistance: ANSI A ¹
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	
¹ 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 ▶ $\text{Feet} \div 3.2808$
C° to F° ▶ $(1.8 \times \text{C}^\circ) + 32 = \text{F}^\circ$	F° to C° ▶ $(\text{F}^\circ \div 1.8) - 17.77 = \text{C}^\circ$
Thousand square inches (MSI) to m^2 ▶ $\text{msi} \times 0.645$	$\text{MSI} = \text{m}^2 \div 0.645$

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

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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Visit us at www.sonychemicals.com
F-4070 6/01

Sony Chemicals Corporation of America
1001 Technology Drive
Mt. Pleasant, PA 15666-1766
Phone: (724) 696-7500
FAX: (724) 696-7555
E-mail: sales_marketing@sonychemicals.com

Sony Chemicals Europe B.V.
Diamantlaan 27
2132 WV Hoofddorp
The Netherlands
Phone: 31 23 56 50606
FAX: 31 23 56 20115
E-mail: sales@sonychemicals.nl

Sony Chemicals Singapore Pte Ltd.
83 Clemenceau Avenue #10-03/04
UE Square
Singapore 239920
Phone: 65-836-1181
FAX: 65-836-1171
E-mail: sales@sonychem.com.sg

Sony Chemicals Corporation
1-6-3 Nihombashi Muromachi
Tokyo 103
Japan
Phone: 81 3 3279 0448
FAX: 81 3 3279 0510
E-mail: info@sccj.co.jp