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.

Visit Watson Label Products - www.wlp.com
**Ribbon Data Sheet**

**TR4070**

**Specialty Resin**

<table>
<thead>
<tr>
<th>Ribbon Property</th>
<th>Description</th>
<th>Specification</th>
<th>Measurement Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ink Material</td>
<td>Resin</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Total Thickness (µm)</td>
<td>6.8 ± 0.5</td>
<td>Micrometer</td>
<td></td>
</tr>
<tr>
<td>Base Film Thickness (µm)</td>
<td>4.8 ± 0.4</td>
<td>Micrometer</td>
<td></td>
</tr>
<tr>
<td>Ink Thickness (µm)</td>
<td>1.5 ± 0.4</td>
<td>Micrometer</td>
<td></td>
</tr>
<tr>
<td>Ribbon Transmission Density</td>
<td>0.75 – 1.25</td>
<td>Densitometer</td>
<td></td>
</tr>
<tr>
<td>Print Density</td>
<td>≥ 1.6</td>
<td>Densitometer</td>
<td></td>
</tr>
</tbody>
</table>

**Durability of Printed Image**

- **Label Stock:** Topcoated White Polyester
- **Print Speed:** 6 IPS
- **Print Density:** 1.92
- **Smudge Resistance:** ANSI A†
- **Scratch Resistance:** ANSI A†

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

†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:** 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°−32) ÷ 1.8 = C°
- **Thousand square inches (MSI) to m²:** msi x 0.645
- **m² to MSI:** m² ÷ 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.*