TR4065 is the fastest growing ribbon for the outdoor tag market. It prints at energy levels equal to or less than wax ribbons. TR4065 also provides durability comparable to resin ribbons on many low-end synthetics.

**Specific Features**

- Excellent on smooth label stocks, especially high-gloss paper and polyethylene
- UL recognized
- Features Sony’s SmoothCoat™ backcoat
- Specially formulated topcoat enhances smudge and scratch resistance
- Highly resistant to the effects of outdoor exposure (wind, rain and sunlight)

**Recommended Applications**

Lumber tags, tote labels, wire tags, pharmaceutical labels, wrist bands, ski lift tags, hunting tags, nursery labels, retail tags and labels.

**Shipping Labels**

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

**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.

**Horticulture Tags**

Sony ribbons are a durable, cost-effective solution for your barcoding applications.
## Ribbon Data Sheet

**TR4065**

### Premium Wax/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>Wax/Resin</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Total Thickness (µm)</td>
<td>7.6 ± 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>0.5 – 1.2</td>
<td>Densitometer</td>
<td>—</td>
</tr>
<tr>
<td>Print Density</td>
<td>≥ 1.5</td>
<td>Densitometer</td>
<td>—</td>
</tr>
</tbody>
</table>

### Durability of Printed Image

- **Label Stock:** Polyethylene
- **Print Speed:** 6 IPS
- **Print Density:** 1.75
- **Smudge Resistance:** ANSI A
- **Scratch Resistance:** ANSI A

**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

1Represents 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°−1.8) -17.77 = C°
- **Thousand square inches (MSI) to m²:** msi x 0.645
- **MSI to m²:** MSI = m² ÷ 0.645

### Recommended Applications

- Lumber tags, tote labels, wire tags, pharmaceutical labels, wrist bands, ski lift tags, hunting tags, nursery labels, retail tags and labels.

*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.*