TR4500 is part of a complete line of superior-performing SharpEdge™ product solutions. It is the best ribbon on the market for thermal transfer printers equipped with near edge or corner edge printheads. TR4500’s SmoothCoat™ backcoat reduces static and prolongs printhead life.

Specific Features

- Near edge/corner edge applications
- Prints excellent images on a wide variety of label and tag stocks (paper to low-end synthetics)
- Complies with FDA requirements for indirect food contact applications.
- Prints dark images at high speeds and low energy settings
- Features Sony’s SmoothCoat™ backcoat

Recommended Applications

Shipping labels, retail tags, ingredient labels, pharmaceutical labels, general ticketing, direct package printing (poly-bags).

- **Shipping Labels**: Sony ribbons deliver crisp rotated bar codes on coated and uncoated tag and label stocks.
- **Retail Labels**: Sony ribbons comply with FDA requirements for indirect food contact applications.
- **Direct Package Printing**: Scratch and smudge resistance make Sony ribbons ideal for direct printing on flexible poly-bags.
- **Retail Tags**: Sony ribbons will not stain fabrics when steamed, ironed or stored for extended periods of time.

Visit Watson Label Products - www.wlp.com
**TR4500**

**Near Edge Premium**

**Ribbon Data Sheet**

<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>8.2 ± 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>1.4 ± 0.3</td>
<td>Micrometer</td>
<td></td>
</tr>
<tr>
<td>Ribbon Transmission Density</td>
<td>≤ 1.2</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:** Coated paper
- **Print Speed:** 6 IPS
- **Smudge Resistance:** ANSI A
- **Smudge Test:** 50 cycles @ 500 grams with cotton cloth
- **Scratch Resistance:** ANSI A
- **Scratch Test:** 20 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 ÷ 0.645

**Recommended Applications**

- Shipping labels, retail tags, ingredient labels, pharmaceutical labels, general ticketing, direct package printing (poly-bags), tote labels, blood bags.

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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