# Substrate Evaluation Report

**Specialty Media for the HP 7000**

**Customer Name:** Tekra Corp.

**Customer Address:** 16700 W. Lincoln Avenue
New Berlin, WI 53151

**Substrate Name:** 184502 2 mil White PET/Perm adhesive UL

**Substrate Type:** Synthetic

**Weight:** 360gsm

**I.D. Number:** RI7000-10-1814

**Date of Evaluation:** 6/9/10

**Caliper:** .010”

**Evaluation Site:** RIT

**Evaluation Process:** Specialty Media

### Evaluation Measures

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Measure</th>
<th>Result</th>
<th>Grade (# Stars)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runability</td>
<td></td>
<td></td>
<td>** 4 **</td>
<td></td>
</tr>
<tr>
<td>Simplex</td>
<td># Jams</td>
<td>0</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Duplex</td>
<td># Jams</td>
<td>NA</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

### Fixing

<table>
<thead>
<tr>
<th>Peeling</th>
<th>100% K in 4 color mode, % ink remaining</th>
<th>100%</th>
<th>Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100% K in Monochrome mode, % ink remaining</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>400% YMCK 100% each color, Visual Damage</td>
<td>NO</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Peeling

<table>
<thead>
<tr>
<th>Flaking</th>
<th>&lt;1 mm, % Coverage</th>
<th>400%</th>
<th>Pass</th>
</tr>
</thead>
</table>

### Blanket Compatibility

**Grade (# Stars):** ** 4 **

### Evaluation Result

**Pass/Fail:** Pass

**Note Detail:**
The substrate certification procedure incorporates several processes. An initial screening evaluation is followed by a more comprehensive evaluation looking at the performance of the particular substrate within the press. This checks for:

Runability: The ability of the substrate to run smoothly through the press.

Fixing: Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate for standard and photo-related applications—the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a range of blanket temperatures and pressures.

Blanket Compatibility: Ink-transferability—the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility—the interaction between the substrate and the blanket is checked for ‘Blanket Memory’ effect, reflected in gloss or density differences between solids and background areas of the previously printed image. Cleaner pages—Blankets are routinely maintained by running “cleaner pages”, a self cleaning method used to refresh the blanket’s release layer.

**Star Rating**

3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 1.2 K impressions.

2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 1.2 K impressions.

1 star: good papers; print cleaners generally required; some memories may be seen at 1.2 K impressions. Approved tape test, after one hour.