### Substrate Compatibility Test Report

**Date:** 5/25/10  
**Material:** Label  
**Machine:** ws4050 / Nr.  
**Location:** RIT  
**Certification number:** R04050-10-1791

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**SUBSTRATE TEST DETAILS**

**Supplier name:** Avery Dennison - FRNA  
**Media name:** 2mil MATTE CHROME PET ITC/S8025/50#SCK

<table>
<thead>
<tr>
<th>Category</th>
<th>Self-adhesive</th>
<th>Flexible Packaging</th>
<th>Paper</th>
<th>Shrink Sleeve</th>
<th>Synthetic</th>
<th>Magnetic</th>
<th>Cartonboard</th>
</tr>
</thead>
<tbody>
<tr>
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<td>X</td>
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<table>
<thead>
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<th>Region</th>
<th>Europe</th>
<th>US</th>
<th>Canada</th>
<th>APJ</th>
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<tbody>
<tr>
<td>Media type:</td>
<td>Paper</td>
<td>PE</td>
<td>PET</td>
<td>PP/BOPP</td>
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<tr>
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<td>PVC</td>
<td>PC</td>
<td>OPS</td>
<td>PLA</td>
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<tr>
<td></td>
<td>Specialty</td>
<td>Teslin</td>
<td>Coated Gloss</td>
<td>Coated Matte</td>
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<td></td>
<td>Textile</td>
<td>Embossed</td>
<td>Transparent</td>
<td>White</td>
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<tr>
<td></td>
<td>Magnetic</td>
<td>X Metallized</td>
<td>Beige</td>
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</tbody>
</table>

- **Test description:** Official substrate compatibility test for industrial presses ws4000/ws4050/ws4500.
- **Test procedure:** Screen test  
- **Shipping condition received goods:** firmly wrapped and protected to stabilize environmental conditions

- **Setup (default):**  
  - Ink version: 4.0  
  - Blanket code:  
  - Pip code:  
  - ITM default temperature: 146 degr. C.
- **Substrate behaviour:**  
  - Bleeding: None  
  - Telescopic: None  
  - Static: None  
  - Jams: None
- **Necessary print cleaners:** 0
- **Ink adhesion:**  
  - after 15 mins. = 100%  
  - after 60 mins. = 100%
- **Forced colour test:**  
  - Cyan: Pass  
  - Magenta: Pass  
  - Yellow: Pass  
  - Black: Pass
- **Temperature mapping:**  
  - 135 degr. = NA  
  - 146 degr. = NA  
  - 156 degr. = NA

- **Test result/conclusion:**  
  - PASS  
  - FAIL

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**Additional remarks/comments:**

Adhesion for the white ink was only 44% 60 minutes after printing.