Substrate Compatibility Test Report

Date: 3/16/10
Material: Label
Machine: WS6000 / Nr.
Location: RIT
Certification Number: RI6000-10-1753

### SUBSTRATE TEST DETAILS

**Supplier name:** Avery Dennison - FRNA  
**Media name:** 3 mil Clear MDO ITC/S692N/1

<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>
<th>IML</th>
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</thead>
<tbody>
<tr>
<td>Region</td>
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<td>US</td>
<td>Other</td>
<td>Canada</td>
<td>APJ</td>
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<tr>
<td>Media type</td>
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<td>PC</td>
<td>PET</td>
<td>OPS</td>
<td>Coated Gloss</td>
<td>Coated Matte</td>
<td>PP/BOPP</td>
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<td>White</td>
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</tbody>
</table>

**Test description:** Official substrate compatibility test for industrial presses ws6000.

**Test procedure:**  
- Screen test  
- Full test

**Shipping condition received goods:**  
- firmly wrapped and protected to stabilize environmental conditions

**Setup (default):**  
- Ink version: 4.5
- Blanket code:  
- Pip code:  
- ITM default temperature: 105 degr. C.

**Substrate behaviour:**  
- Bleeding: None  
- Telescopic: None  
- Static: None  
- Jams: None

**Necessary print cleaners:** 0

**Ink adhesion:**  
- after 15 mins. = 70%
- after 60 mins. = 93%

**Forced colour test:**  
- Cyan: NA  
- Magenta: NA  
- Yellow: NA  
- Black: NA

**Temperature mapping:**  
- 95 degr.= NA  
- 105 degr.= NA  
- 115 degr.= NA

**Press settings (best working point)**  
- PTH 55  
- Blanket= 110  
- Feed fan = 4  
- 2nd Transfer = 300

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

**Additional remarks/comments:**  
Ink adhesion for the white ink was only 56% 60 minutes after printing.