Substrate Compatibility Test Report

Date: 8/10/10
Material: Paper
Machine: ws4050 / Nr.
Location: RIT
Certification number: R04050-10-1852

SUBSTRATE TEST DETAILS

Supplier name: Matthias Paper Corporation
Media name: TN60 Coastal Label XP

<table>
<thead>
<tr>
<th>Category</th>
<th>Self-adhesive</th>
<th>Flexible Packaging</th>
<th>Shrink Sleeve</th>
<th>Synthetic</th>
<th>Magnetic</th>
<th>Cartonboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region</td>
<td>Europe</td>
<td>× US</td>
<td>× Canada</td>
<td>API</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Media type</th>
<th>Paper</th>
<th>PE</th>
<th>PET</th>
<th>PP/BOPP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specialty</td>
<td>PVC</td>
<td>PC</td>
<td>OPS</td>
<td>PLA</td>
</tr>
<tr>
<td>Textile</td>
<td>Teslin</td>
<td>Transparent</td>
<td>Coated Matte</td>
<td>× White</td>
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<tr>
<td>Magnetic</td>
<td>Embossed</td>
<td>Beige</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test description: Official substrate compatibility test for industrial presses ws4000/ws4050/ws4500.
Test procedure: Screen test  Full 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:
4.0            1 46 degr. C.
Substrate behaviour: Bleeding: OK
Telescopic: OK  Static: OK  Jams: None
Necessary print cleaners: 0
Ink adhesion: Pass  after 15 mins. = 80%
after 60 mins. = 92%
Forced colour test: Cyan: Pass  Magenta: Pass
Yellow: Pass  Black: Pass
Temperature mapping: 135 degr. =
146 degr. = 156 degr. =

Test result/conclusion: × PASS  FAIL

Additional remarks/comments: