Substrate Compatibility Test Report

Date: 6/9/10
Material: Label
Machine: ws4050 / Nr.
Location: RIT
Certification number: R04050-10-1806

SUBSTRATE TEST DETAILS
Supplier name: MACtac
Media name: IMP1810 INDIE Matte PP
Category: Self-adhesive, Flexible Packaging

<table>
<thead>
<tr>
<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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<td></td>
<td>PVC</td>
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<td>OPS</td>
<td>PLA</td>
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<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>Metalized</td>
<td>Beige</td>
<td></td>
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</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: Telescopic: None, Static: None, Jams: None
Necessary print cleaners: 0

Ink adhesion:
- Cyan: ok
- Magenta: ok
- Yellow: ok
- Black: ok

Forced colour test:
- Cyan: after 15 mins. = 80%
- Magenta: after 60 mins. = 90%
- Yellow: ok
- Black: ok

Temperature mapping:
- 135 degr.: NA
- 146 degr.: NA
- 156 degr.: NA

Test result/conclusion: PASS, FAIL

Additional remarks/comments: