## WATERLESS OFFSET PRINTING

High-quality digital thermal waterless negative CTP printing plate  
Delivers outstanding sharp detail and stability demanded in the security printing segment

### Technical Data

<table>
<thead>
<tr>
<th><strong>Type</strong></th>
<th><strong>IMPRIMA™ SB</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Feature</strong></td>
<td>Non ablative, negative working, digital thermal waterless printing plate with a wavelength of 830 nm</td>
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<tr>
<td><strong>Application</strong></td>
<td>High Resolution applications, developed for security printers who desire a plate with excellent unbaked durability and chemical resistance</td>
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<tr>
<td><strong>Plate base</strong></td>
<td>Aluminum</td>
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<tr>
<td><strong>Gauge</strong></td>
<td>0.15 mm, 0.24 mm, 0.30 mm</td>
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<tr>
<td><strong>Available sizes</strong></td>
<td>All common plate sizes</td>
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<tr>
<td><strong>Sensitivity</strong></td>
<td>80 - 140 mJ/cm² (Dependent on imager type, configuration and resolution)</td>
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</tbody>
</table>
| **Resolution @ 2.540 dpi** | AM screening: 2-98% @ 200 lpi (80 l/cm)  
FM screening: 1–99 % with Staccato 25  
Hybrid screening: 1–99 % e.g. Sublima 240 |
| **Compatibility with FM screening** | 25 µm |
| **Daylight resistance** | Up to 3 hours under standard safe-light conditions |
| **Run length** | Dependent upon image resolution, press, press chemicals, ink and paper conditions |
| **Processors** | Toray TWL 650F Waterless Plate processor  
Toray TWL 1160F2 Waterless Plate processor  
Heights TWP 680/1250 Waterless Plate processor  
Könings KTW 653/853 Waterless Plate processor |
| **Processing** | Step 1 - DP-1 *(pre-treatment)*  
Step 2, 3 - water: 5°-8° dH, 20°-25°C  
Step 4 - DA-1 *(after-treatment)* |
| **Pre-treatment temperature** | 35°C +/- 1°C |
| **Processing speed** | Toray TWL 650F Waterless Plate processor: 30 - 40 cm/min.  
Toray TWL 1160F2 Waterless Plate processor: 50 - 80 cm/min.  
Heights TWP 680/1250 Waterless Plate processor: 50 - 80 cm/min.  
Könings KTW 653/853 Waterless Plate processor: 50 - 80 cm/min. |
| **Dwell time** | Toray TWL 650F Waterless Plate processor: 60 - 80 sec  
Toray TWL 1160F2 Waterless Plate processor: 45 - 72 sec  
Heights TWP 680/1250 Waterless Plate processor: 45 - 72 sec  
Könings KTW 653/853 Waterless Plate processor: 30 - 48 sec |
| **Plate finisher** | Not applicable |

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**Learn more about Toray Waterless Printing**  
Please visit: www.imprima.toray

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