



Commercial Substrate Evaluation Report

Certified for **HP Indigo**

Supplier Information									
Supplier Name		Rolland Enterprises Inc.							
Supplier Address		256 JB Rolland Blvd West, St-Jerome, Quebec, J7Y0L6							
Supplier Country		Canada							
Product Information									
Product Name		Rolland Enviro Print							
Product Category		Paper							
Grammage (gsm) / Basis weight (#)		90 gsm/60#		Thickness (microns/caliper)		112 um/4.4 mils/0.0044 in/4 Pts			
Certification Number		RI5500-15-3711		Certification Center		RIT			
Date of Evaluation		02/04/2015		Evaluated on		HP 5500			
Certified for		5500, 5600 multi-shot, 7000, 7500, 7600 & 7800							
Evaluation Process	Full								
Evaluation		Measurement		Result		rade (stars)	Comments		
Runability									
Simplex		Number of Jams	1		***				
Duplex		Number of Jams	1						
Ink Adhesion / Fixing					**				
Peeling	1	100%K in 4 color mode, % in remaining 84%							
Flaking				400%					
Photo Peeling	2	290K in 4 color mode, % in remaining		69%			Photo Peel 60 Fail		
Photo Flaking		<1mm, % Coverage 400%			1				
Photo Recommended	>8	•80% after 10 or 60 min No							
White Ink Recommended	>{	80% after 10 or 60 min N/A							
Blanket Compatibility									
Cleaner Pages	1:	st clean page after 12K impressions	1		***				
Evaluation Result			Pass						

Comment Detail: Photo Peel 60 Fail - Not Recommended for Photo Related Applications, did not meet minimum requirements after 60 minutes.

The substrate certification procedure incorporates several processes.

An initial screening evaluation is followed by a more comprehensive evaluation

looking at the performance of the particular substrate within the press. This checks for:

Runnability:

The ability of the substrate to run smoothly through the press in various print modes.

Fixing:

Ink-substrate interaction as determined by: 1) The degree of ink adhesion to the substrate for standard and photo-related applications as measured in a tape peel test of the image; and 2) The degree of flaking of the ink layer. The fixing properties are measured through a range of blanket temperatures and pressures.

Blanket Compatibility:

Blanket-substrate interaction as determined by: 1) Ink-transferability, which is the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity; 2) 'Blanket Memory' effects, reflected in gloss or density differences between solids and background areas of the previously printed image; and 3) Number of cleaner pages, in which blankets are routinely maintained by performing a self cleaning procedure ("cleaner pages") used to refresh the blanket's release layer.

Photo and White Ink Applications:

Use of robust media products is strongly recommended when printing photo-related and/or white ink applications and/or Light Cyan and Light Magenta due to additional ink coverage demands of these applications. This media has been tested and approved to perform well with higher levels of ink coverage, and is therefore recommended for photo-related and/or white ink type applications. However, it is strongly recommended that user acceptance ultimately be evaluated per individual application and finishing requirements, etc. The test results are provided as a guide; assess actual performance to determine suitability for individual use.

Star Rating

★★★ Best performing substrate: fewer print cleaners needed; no blanket memories at least up to 12K impressions.

- ★★ Recommended substrate: some print cleaners may be needed; slight memories may be seen up to 12K impression
 - 🚖 Good substrate: print cleaners generally required; some memories may be seen by 12K impressions.

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Evaluation	Measurement	Best-performing Recommended		Good	Failure
Transport	Runnability	No jams with the tested paper	No more than 1 jam or minor issue with the tested paper	No more than 1 jam and minor issues with the tested paper	2 jams with the tested paper, control performs well
Fixing	Peeling	All 4 results are \ge 90%	All 4 results are $\ge 80\%$	At least 1 result is ≥ 80%	All results < 80%
Flaking Guille	Flaking Guillotine, 5min • Coated		At least 1 result is > 250%	At least 1 result is > 200%	Results < 200%
Flaking Guillotine, 5min • Uncoated		Result is > 300%	Result is > 250%	Result is > 200%	Results < 200%
Photo	Peeling 290% Black	Result is > 80% after 10 or 60 minutes		N/A	Results < 80%
FIIOIO	Flaking Guillotine, 5min	<1mm	at 350% K	N/A	Results > 1mm
Blanket	Cleaner Sheets	1ª Red is clean 3rd Red is clean		5 th Red is clean	5th Red not clean, or White observed
Compatibility	Monitors on tested paper and reference glossy paper	Very minor memories at least up to 12K impressions			Severe lack of dots/cracks/gloss memory

This substrate is certified for the next two years from the date of evaluation, provided there is no change to the paper properties or production processes. At the end of two years from the original evaluation date, if there have been no changes in paper properties or production processes, the certification can be extended for another two years. After four years from the original certification date, a new certification is required.



