



Commercial Substrate Evaluation Report

Certified for **HP Indigo**

Supplier Information								
Supplier Name		Neenah Paper						
Supplier Address		3460 Preston Ridge Rd. #600, Alpharetta, GA, 30005						
Supplier Country		USA						
Product Information								
Product Name		Kivar® 3-14 Performa Digital						
Product Category		Paper						
Grammage (gsm) / Basis wei	ght (#)	293 gsm/180#		Thickness (microns/caliper)		13.5 mils		
Certification Number		RI5500-15-3808		Certification Center		RIT		
Date of Evaluation		04/10/2015	Evaluated on			HP 5500		
Certified for	;	5500, 3050/3500, 5000, 5600 multi-shot, 7000, 7500, 7600, 7800, 7900, 10000 & 12000						
Evaluation Process	Full							
Evaluation		Measurement		Result	Gr	ade (stars)	Comments	
Runability							Front Side Only	
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Evaluation	Measurement	Result	Grade (stars)	Comments
Runability				Front Side Only
Simplex	Number of Jams	0	***	
Duplex	Number of Jams			
Ink Adhesion / Fixing			***	
Peeling	100%K in 4 color mode, % in remaining	100%		
Flaking	<1mm, % Coverage	400%		
Photo Peeling	290K in 4 color mode, % in remaining	100%		
Photo Flaking	<1mm, % Coverage	400%		
Photo Recommended	>80% after 10 or 60 min	Yes		
White Ink Recommended	>80% after 10 or 60 min	N/A		
Blanket Compatibility				
Cleaner Pages	1st clean page after 12K impressions	1	***	
Evaluation Result		Pass		

Comment Detail: Front Side Only - Substrate is a simplex product and only the front side is certified.

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



		***	**	*	
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	Peeling All 4 results are $\geq 90\%$ All 4 results are $\geq 80\%$ At least 1 result		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 Guilla	Flaking Guillotine, 5min ● Uncoated		Result is > 250%	Result is > 200%	Results < 200%
Photo	Peeling 290% Black Result is > 80% o		fter 10 or 60 minutes	N/A	Results < 80%
rnoto	Flaking Guillotine, 5min	<1mm	at 350% K	N/A	Results > 1 mm
Blanket	Cleaner Sheets	1ª Red is clean	3™ 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	Slight memories may be seen up to 12K impressions	Some memories may be seen by 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.



