



Commercial Substrate Evaluation Report

Certified for **HP Indigo**

Neenah Paper					
3460 Preston Ridge Rd., Suite 600, Alpharetta, GA, 30005					
USA					
CLASSIC CREST® Digital, Smooth Digital, Rec. 100 Br. White, 80 Text					
Paper					
118 gsm/80#		Thickness (microns/caliper)		147 um/0.0058 in	
RI5500-15-3936		Certification Center		RIT	
04/09/2015		Evaluated on		HP 5500	
5500, 5600 multi-shot, 7000, 7500, 7600 & 7800					
Full	Full				
Measurement		Result	Gı	rade (stars)	Comments
Number of Jams	0		**	***	
Number of Jams	0				
		**	*		
100%K in 4 color mode, % in remaining	100%				
)	3460 Preston Ridge R USA CLASSIC CREST® D Paper 118 gsm/80# RI5500-15-3936 04/09/2015 5500, 5600 multi-shot, Full Measurement Number of Jams Number of Jams	3460 Preston Ridge Rd., Suite USA CLASSIC CREST® Digital, Sn Paper 118 gsm/80# RI5500-15-3936 04/09/2015 5500, 5600 multi-shot, 7000, 7 Full Measurement Number of Jams 0 Number of Jams 0	3460 Preston Ridge Rd., Suite 600, Alpharetta USA CLASSIC CREST® Digital, Smooth Digital, Re Paper 118 gsm/80# RI5500-15-3936 04/09/2015 Evaluated on 5500, 5600 multi-shot, 7000, 7500, 7600 & 780 Full Measurement Result Number of Jams 0 Number of Jams 0	3460 Preston Ridge Rd., Suite 600, Alpharetta, GA, 30 USA CLASSIC CREST® Digital, Smooth Digital, Rec. 100 II Paper 118 gsm/80# Thickness (microns/caliper) RI5500-15-3936 Certification Center Evaluated on 5500, 5600 multi-shot, 7000, 7500, 7600 & 7800 Full Measurement Result Gr Number of Jams 0 Number of Jams 0 Number of Jams 0	3460 Preston Ridge Rd., Suite 600, Alpharetta, GA, 30005 USA CLASSIC CREST® Digital, Smooth Digital, Rec. 100 Br. White, 80 Te Paper 118 gsm/80# Thickness (microns/caliper) RI5500-15-3936 Certification Center RIT 04/09/2015 Evaluated on HP 5500 5500, 5600 multi-shot, 7000, 7500, 7600 & 7800 Full Measurement Result Grade (stars) Number of Jams 0 Number of Jams 0 Number of Jams 0

Flaking	<1mm, % Coverage	400%		
Photo Peeling	290K in 4 color mode, % in remaining	98%		
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	2	***	
Evaluation Result		Pass		•

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Comment	υet	all

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.

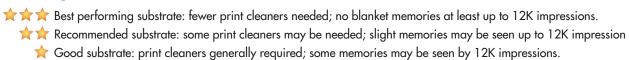
Blanket Compatibility:

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	All 4 results are ≥ 90%	All 4 results are ≥ 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 Guilla	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%
	Flaking Guillotine, 5min	<1 mm 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.



