



Substrate Evaluation Report

For HP Indigo 7000 / 5500 / 5000 / 3500 / 3050

Customer Name : **Grycksbo Paper AB**

Customer Address : **Grycksbo Paper, 79020
Grycksbo, Sweden**

Substrate Name : **G-print**

Substrate Type : **Coated matte**

Weight : **80 gsm**

I.D. Number : **SG5500-09-043**

Date of Evaluation : **11 June 2009**

Caliper : **77 µm**

Evaluation Site : **Singapore**

Evaluation Process : **Full Test**

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	1		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	98.2%		100% after 1hr
Flaking	< 1 mm, % Coverage	300%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

Suitable for photo-related application.



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 100 gsm
I.D. Number : _____
Date of Evaluation : 5 June 2008
Caliper : 98 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	99.4%		100% after 1 hr
Flaking	< 1 mm, % Coverage	350%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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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:

- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image. Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- *** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 12K impressions.
- ** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 12K impressions.
- * 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 115 gsm
I.D. Number : _____
Date of Evaluation : 6 June 2008
Caliper : 113 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	100%		100% after 1 hr
Flaking	< 1 mm, % Coverage	350%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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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:

- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image. Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- *** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 12K impressions.
- ** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 12K impressions.
- * 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : **Grycksbo Paper AB**

Customer Address : **Grycksbo Paper, 79020**
Grycksbo, Sweden

Substrate Name : **G-Print**

Substrate Type : **Coated Matte**

Weight : **130 gsm**

I.D. Number : _____

Date of Evaluation : **6 June 2008**

Caliper : **129 µm**

Evaluation Site : **Singapore**

Evaluation Process : **Full Test**

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	100%		100% after 1 hr
Flaking	< 1 mm, % Coverage	350%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : **Grycksbo Paper AB**

Customer Address : **Grycksbo Paper, 79020**
Grycksbo, Sweden

Substrate Name : **G-Print**

Substrate Type : **Coated Matte**

Weight : **150 gsm**

I.D. Number : _____

Date of Evaluation : **6 June 2008**

Caliper : **150 µm**

Evaluation Site : **Singapore**

Evaluation Process : **Full Test**

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	100%		100% after 1 hr
Flaking	< 1 mm, % Coverage	350%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 170 gsm
I.D. Number : _____
Date of Evaluation : 6 June 2008
Caliper : 172 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	100%		100% after 1 hr
Flaking	< 1 mm, % Coverage	400%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail



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:

- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image. Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- ***** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 12K impressions.
- **** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 12K impressions.
- *** 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 200 gsm
I.D. Number : _____
Date of Evaluation : 6 June 2008
Caliper : 203 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	99.5%		100% after 1 hr
Flaking	< 1 mm, % Coverage	300%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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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:

- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image.
Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- *** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 12K impressions.
- ** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 12K impressions.
- * 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 200 gsm
I.D. Number : _____
Date of Evaluation : 6 June 2008
Caliper : 203 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	99.5%		100% after 1 hr
Flaking	< 1 mm, % Coverage	300%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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Star Rating

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- * 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : **Grycksbo Paper AB**

Customer Address : **Grycksbo Paper, 79020**
Grycksbo, Sweden

Substrate Name : **G-Print**

Substrate Type : **Coated Matte**

Weight : **230 gsm**

I.D. Number : _____

Date of Evaluation : **6 June 2008**

Caliper : **235 µm**

Evaluation Site : **Singapore**

Evaluation Process : **Full Test**

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	99.5%		100% after 1 hr
Flaking	< 1 mm, % Coverage	300%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail



Substrate Evaluation Report

For HP Indigo 5500 / 5000 / 3050

Customer Name : Grycksbo Paper AB
Customer Address : Grycksbo Paper, 79020
Grycksbo, Sweden
Substrate Name : G-print
Substrate Type : Coated Matte
Weight : 250 gsm
I.D. Number : _____
Date of Evaluation : 6 June 2008
Caliper : 255 µm
Evaluation Site : Singapore
Evaluation Process : Full Test

Evaluation	Measure	Result	Grade (#Stars)	Notes
Runnability			3	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			3	Notes
Peeling	100% K in 4 color mode, % ink remaining	99.2%		100% after 1 hr
Flaking	< 1 mm, % Coverage	250%		

Blanket Compatibility			2	
Evaluation Result	Pass / Fail	Pass		

Notes Detail

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- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image. Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- *** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 12K impressions.
- ** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 12K impressions.
- * 1 star: good papers; print cleaners generally required; some memories may be seen at 12K impressions. Approved tape test, after one hour.

		***	**	*
	Measure	Best-performing paper	Recommended paper	Good papers
Transport	Runability	No jams or other issues	1 jam or minor issues	1 jam or minor issues
Fixing	Peeling: 100% K, 10 minutes	>90%	>80%	>80% at one hour
	Peeling: monochrome black at 10 minutes	>80%	>70%	>70% at one hour
	Flaking: guillotine, 5 minutes	<1 mm at 200% K	<1 mm at 200% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 12K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean