



August 2024

DIGITAL FOR HP INDIGO

Olin Origins is a range of contemporary shades with natural allure. It has an organic and rough appearance. It is perfectly suitable for all kind of applications (stationery, invitations, menus, publishing, packaging) and print techniques.

Olin Origins range is member of 1% for the Planet and hence dedicates 1% of its sales revenue towards environmental, non-profit, organisations.

Printing Guideline

Applications

Corporate communication, annual reports, business cards, letterheads, purchase orders, programs, invitations, leaflets, pharmaceutical instructions, folders, books, luxury packaging...

Preparation

Store at room temperature (17-23°C), at a relative humidity of 50%, from 24 to 48 hours before use. Protect the paper against any risk of moisture during the whole process. In particular, unwrap the paper only at the last moment before printing and rewrap it immediately after the print run. Do not use set-off powder when printing.

Pre-press

Large printed surface: under colour-removal necessary. Intense full colours: Black (blue support (40%) recommended), Colours (one or several support colours recommended). Screen ruling: 150-163

Printing

Olin Origins is suitable for litho offset and screen printing. Olin Origins 120g is suitable for laser printing for small and medium runs (the use of appropriate inks is recommended) and is fully suitable for pre-print (the use of appropriate inks that are laser compatibles is recommended)

Finishing and conversion

- Embossing & die-stamping: all techniques can be used.
- Hot foil stamping: no precautions are necessary when using conventional foil stamping techniques. Foil blockers can recommend the best foil to suit the image and paper chosen.
- Varnishing: possible but trials to be made first.
- Lamination: not recommended.
- Scoring: starting at 120g, scoring with counterpart.
- Cutting: it is recommended to wait 24hours after the printing.
- Ensure that the blade of the guillotine is sharp enough in order to avoid dust deposits.

Digital technologies

Olin Origins is suitable for Dry Toner and Olin Origins Digital for HP Indigo is suitable for HP Indigo.



CREATIVE
POWER

by antalis



Dry Toner ®

Certified for
HP Indigo

Property & Unit	Standard	Tolerance		
GSM (gm ²)	ISO 536	± 5%	120	320
Roughness (m/min)	ISO 8791-2	± 5%	800	900
Thickness (µm)	ISO 534	± 5%	168	438
Stiffness MD (mN)			NA	>280
Stiffness CD (mN)			NA	>110
Bulk (cm ³ /g)	ISO 534		1.4	1.37
Whiteness CIE (Chalk) (%)	ISO 11475	± 5%	105	105
COBB 60 sec WIRE SIDE (g/m ²)	ISO 535	± 5%	30	30
COBB 60 sec FELT SIDE (g/m ²)	ISO 535	± 5%	30	30
Absolute humidity (%)	ISO 287	1.0	6.5	6.5

Lava Stone is carbon free, ensuring no oxidation after hot-foil stamping.
Please note that Pebble and Cereal have a lower level of lightfastness (ISO 105-B05).

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: August 2024



Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Chalk
Product Category	Uncoated
Grammage (gsm)/Basis weight (#)	120 gsm
Microns/Caliper	168 microns
Certification Number	SG7600-21-081-B
Certification Center	HP Singapore
Date of Evaluation	15 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot
Evaluation Process	Full

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			***	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		-		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Chalk
Product Category	Uncoated
Grammage (gsm)/Basis weight (#)	320 gsm
Microns/Caliper	438 microns
Certification Number	SG7600-21-082-B
Certification Center	HP Singapore
Date of Evaluation	15 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / thick substrate
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / thick substrate
Evaluation Process	Full

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			**	See comment †
Simplex	Number of Jams	1		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		-		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____

† This product is susceptible to scratching during the print process. The substrate needs to be evaluated by the Customer for their applications, deep scratches may occur. Clean the transport path for any small particles that may cause the scratch.

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Cereals
Product Category	Uncoated, cream
Grammage (gsm)/Basis weight (#)	120 gsm
Microns/Caliper	168 microns
Certification Number	SG7600-21-083-B
Certification Center	HP Singapore
Date of Evaluation	16 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			***	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____

This certification is for use with Premium White ink.

Recommended set points : 2 hits of Premium White

Dry cycles (2) if separation not last and (2) if separation is last

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Cereals
Product Category	Uncoated, cream
Grammage (gsm)/Basis weight (#)	320 gsm
Microns/Caliper	438 microns
Certification Number	SG7600-21-084-B
Certification Center	HP Singapore
Date of Evaluation	16 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink / thick substrate
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink / thick substrate
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			**	See comment †
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____

This certification is for use with Premium White ink.

Recommended set points : 2 hits of Premium White

Dry cycles (2) if separation not last and (2) if separation is last

† This product is susceptible to scratching during the print process. The substrate needs to be evaluated by the Customer for their applications, deep scratches may occur. Clean the transport path for any small particles that may cause the scratch.

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Pebble
Product Category	Uncoated, grey
Grammage (gsm)/Basis weight (#)	120 gsm
Microns/Caliper	168 microns
Certification Number	SG7600-21-085-B
Certification Center	HP Singapore
Date of Evaluation	21 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			***	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			**	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____
This certification is for use with Premium White ink.
Recommended set points : 2 hits of Premium White
Dry cycles (2) if separation not last and (2) if separation is last

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Pebble
Product Category	Uncoated, grey
Grammage (gsm)/Basis weight (#)	320 gsm
Microns/Caliper	438 microns
Certification Number	SG7600-21-086-B
Certification Center	HP Singapore
Date of Evaluation	21 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink / thick substrate
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink / thick substrate
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			**	See comment †
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____

This certification is for use with Premium White ink.

Recommended set points : 2 hits of Premium White

Dry cycles (2) if separation not last and (2) if separation is last

† This product is susceptible to scratching during the print process. The substrate needs to be evaluated by the Customer for their applications, deep scratches may occur. Clean the transport path for any small particles that may cause the scratch.

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Indigo
Product Category	Uncoated, blue
Grammage (gsm)/Basis weight (#)	120 gsm
Microns/Caliper	168 microns
Certification Number	SG7600-21-087-B
Certification Center	HP Singapore
Date of Evaluation	22 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			***	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____
This certification is for use with Premium White ink.
Recommended set points : 2 hits of Premium White
Dry cycles (2) if separation not last and (2) if separation is last

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Indigo
Product Category	Uncoated, blue
Grammage (gsm)/Basis weight (#)	320 gsm
Microns/Caliper	438 microns
Certification Number	SG7600-21-088-B
Certification Center	HP Singapore
Date of Evaluation	22 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink / thick substrate
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink / thick substrate
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			**	See comment †
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			***	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____
This certification is for use with Premium White ink.
Recommended set points : 2 hits of Premium White
Dry cycles (2) if separation not last and (2) if separation is last

† This product is susceptible to scratching during the print process. The substrate needs to be evaluated by the Customer for their applications, deep scratches may occur. Clean the transport path for any small particles that may cause the scratch.

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Lava Stone
Product Category	Uncoated, black
Grammage (gsm)/Basis weight (#)	120 gsm
Microns/Caliper	168 microns
Certification Number	SG7600-21-089-B
Certification Center	HP Singapore
Date of Evaluation	21 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			***	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			**	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____
This certification is for use with Premium White ink.
Recommended set points : 2 hits of Premium White
Dry cycles (2) if separation not last and (2) if separation is last

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	Olin Origins Lava Stone
Product Category	Uncoated, black
Grammage (gsm)/Basis weight (#)	320 gsm
Microns/Caliper	438 microns
Certification Number	SG7600-21-090-B
Certification Center	HP Singapore
Date of Evaluation	22 Sep 2021
Evaluated on	HP Indigo 7600 multi-shot / white ink / thick substrate
Certified for	HP Indigo 12000 / 7000 / 5000 series / multi-shot / white ink / thick substrate
Evaluation Process	Specialty (multi-shot) with Premium White

Evaluation	Measure	Result	Grade (stars)	Comments
Runability			**	See comment †
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100%		
	400% YMCK 100% each color, Visual Damage	-		
Blanket Compatibility			**	
White Ink Recommended		PASS		
Color Registration	CPR quality job	PASS		
Evaluation Result		PASS		

Comment Detail: _____

This certification is for use with Premium White ink.

Recommended set points : 2 hits of Premium White

Dry cycles (2) if separation not last and (2) if separation is last

† This product is susceptible to scratching during the print process. The substrate needs to be evaluated by the Customer for their applications, deep scratches may occur. Clean the transport path for any small particles that may cause the scratch.

CREATIVE
POWER

by antalis

Dry Toner ®

Certified for
HP Indigo

The substrate certification procedure incorporates several processes. This checks for:

Runability:

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

Fixing:

Ink-substrate interaction as determined by the degree of ink adhesion to the substrate for standard and photo-related applications as measured in a tape peel test of the image.

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) Ink-transferability after a self-cleaning procedure “cleaner pages” (intended to clean the blanket’s release layer and restore transfer performance) has been performed.

Approval for Photo and White Ink Applications:

Applications that use white ink and or light cyan/light magenta inks or photo related applications are strongly recommended to use robust media products 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: excellent runnability / high ink adhesion / excellent blanket performance with no or very little issues, should generally work well for high coverage and photo applications.
- ☆☆ Recommended substrate: good runnability / good ink adhesion / print cleaners are generally required at a nominal frequency.
- ☆ Good substrate: acceptable runnability / acceptable ink adhesion / print cleaners are generally required more frequently.

		☆☆☆	☆☆	☆
	Measurement	Best-performing substrate	Recommended substrate	Good substrate
Transport	Runnability	No jam and minor issues	1 jam or minor issues	1 jam and minor issues
	Peeling: 100% K	>90%	>80%	>80% at one hour
	Photo peeling: 290% K, 10 or 60 minutes	>80% after 10 or 60 min	N/A	N/A
Blanket Compatibility	Performance evaluated when utilizing a mature blanket Blanket performance	No transfer defects and no Picking above the limit is allowed	Cleaner pages were able to remove all Transfer defect and reduce the picking to below the limit	After cleaning small transfer defects and picking are still visible

Certification Validity

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.

CREATIVE
POWER

by antalis