



KONICA MINOLTA

MEDIA GUIDE

PRODUCTION PRINTING

bizhub PRESS C1100/C1085

◇ Status: 02' 2016

◇ Version: 2.0



Revision Notes

Revision	Description	Revision date
V 1.0	First release	15.01.2015
V 1.1	Media update, Status 01.07.2015	08.07.2015
V 2.0	Media update, Status 11.02.2016	12.02.2016
V 2.0	NEW: recommended 400gsm substrates and related disclaimer for usage	12.02.2016

Created by:

BEU / PP Business Development / Media Team / AS

Index

- Revision Notes3
- Index4
- Warranty Disclaimer:.....6
- Objective and Precautions7
- Paper Types.....7
- Long Grain and Short Grain Paper.....9
- Media Storage & Conditioning9
- Customer Expectation Guide10
- Recommended papers (KMI)11
- Exclusive approved 400gsm substrates.....13
- BEU Media Evaluation Results14
- Media list Rank A15
 - Uncoated media - 400 gsm15
 - Coated media - 400 gsm.....15
 - Coated media.....16
 - Uncoated media.....21
 - Speciality media.....25
- Media list Rank B29
- Media list Rank C.....29
 - Coated Media.....29
 - Uncoated Media.....31
 - Speciality Media.....31

- Media Bank - Status Update32
- BEU Media Evaluation Service33
- Appendix.....34
 - ISO 187:1990.....34
- Datasheets 400gsm substrates.....35
 - Heaven 42.....35
 - genYous.....39
 - mondi Color Copy40
 - Prestige SILK.....41
 - Prestige ART.....42
- Paper Suppliers43
 - Recommended 400gsm paper board substrates:43

Warranty Disclaimer:

Test conditions:

The media recommendations described in this document are based upon tests that were performed under certain test conditions.

Supplementary information:

It should be noted that the composition or nature of the tested media is sometimes subject to manufacturer's changes. The media recommendations, therefore, always refer to the nature of the product used during the mentioned test period.

It should be considered that coated, pre-printed, hammered or textured papers and non-paper media (e.g. carbonless papers, adhesive, labels, PE, polyester and PVC films) - especially when used on a large scale or over a longer period - can trigger chemical and / or thermal processes in the printing system, which may cause a defect or premature wear of certain components. If a print system will be used primarily or exclusively for this purpose, this is at the sole risk and responsibility of the customer.

Any function or quality losses associated with it, do not constitute a defect of the printing system, unless Konica Minolta has tested the critical print medium before closing the contract and - if necessary for a given volume per time unit - released for use.

Warranty and Liability

If the recommended media are used outside of the particular test conditions or in disregard of the above "Supplementary information", no warranty or claims for damages against Konica Minolta can be derived from the present media recommendations.

This document is for Konica Minolta internal use only.

It must not be distributed to customers without informing on the risk of extended service costs and handling advices. End users are advised to contact their paper distributor or manufacturer regarding media guarantees. Please be aware that the quality and consistency of media can vary from ream to ream or carton to carton.

Media quality and consistency can also vary if it is stored in conditions outside of ISO187.

Objective and Precautions

This document is aimed to provide media information and recommendations for bizhub PRESS C1100/C1085. We hope that this information will be practical for meeting the needs of customers in your sales activities.

Actual results may differ from those mentioned in this document as production lots (results may differ even from the same lot), storage conditions, usage environment and other factors are highly likely to vary, and as the C1100/C1085 operate in various environments throughout the year. Please refer to the Warranty Disclaimer and Technical Information given in this document. Therefore, please use the data for reference purposes only.

Paper Types

Paper types are largely divided between uncoated, coated and speciality papers:

Paper Type		Explanation
Plain	Uncoated	Paper for laser printers, mainly for monochrome applications, less smooth surface
Fine	Uncoated	Non-coated printing paper generally used for offset printing . Generally refers to paper that has a smoother surface than plain paper.
Color Specific	Uncoated	Paper for color laser printers which has a high degree of whiteness .
Recycling paper	Uncoated	Uncoated recycled paper - made from paper / paper products that has already been used and recovered
Coated gloss laser	Coated	Glossy paper for laser printers
Coated matt laser	Coated	Matt paper for laser printers
Coated gloss offset	Coated	Glossy paper for offset printing
Coated matt offset	Coated	Matt paper for offset printing
Recycling paper	Coated	Coated recycled paper - made from paper / paper products that has already been used and recovered
OHP Film	Speciality	Copier films for laser printers, mainly used with overhead projectors
Polyester Film	Speciality	Substrates made from polyester film
Envelope	Speciality	Envelopes for laser printers
Label	Speciality	Labels and adhesives for laser printers
Carbonless paper	Speciality	Carbonless paper for laser printers
Other	Speciality	all other special substrates for laser printers

Uncoated Paper

Uncoated paper – often named as natural or writing paper, is paper that has no extra coating and therefore no glare on the surface, which makes it ideal for prints that have a lot of text or reading materials. All bond stock paper is uncoated. Uncoated paper is typically used for letterheads, copy paper, or printing paper.

Coated paper

Coated paper has a thin layer of material such as calcium carbonate or china clay (Kaolin) applied to one or both sides in order to create a surface more suitable for high-resolution halftone screens. Coated or uncoated papers may have their surfaces polished by calendering. Coated papers are divided into matte, semi-matte or silk, and gloss. Gloss papers give the highest optical density in the printed image.

- **Matte Coating**

Matte coating is a light coating that provides a boost to the contrast of photos, but results in very little glare. The matte coating provides a smoother presentation than an uncoated sheet, and softer than the appearance of a glossy sheet. Matte sheets are good for enhancing visual designs with a more subdued layout and color set without having a lot of glare which glossy coatings suffer from.

- **Gloss Coating**

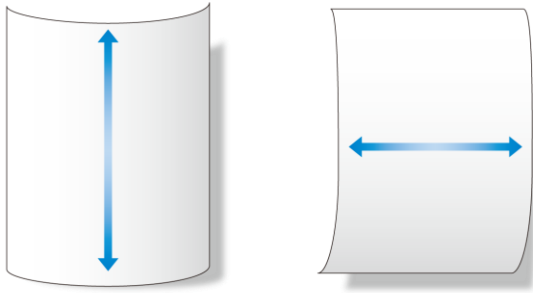
Gloss coating is a coating that provides a lot of shine, which results in a higher contrast and color gamut than other papers. This coating is good for full color images where the color needs to “pop.” This coating gives a very nice finish and professional look for marketing materials or any other kinds of prints that want to show off the color.

Speciality Media

The Speciality Media include a variety of interesting substrates, e.g. Polyester films, Labels, Carbonless paper and other media, all suitable for digital printing.

Long Grain and Short Grain Paper

Paper with fibers lined up in its longest direction is called long grain paper and paper with fibers lined up in the shortest direction is called short grain paper. The stiffness of the paper is higher with respect to the direction of the fiber.



Long grain paper is generally used for books such as paperbacks as its pages are easy to turn. For output devices, Paper stiffness can be ensured if the grain alignment is in the same direction as the paper feeding direction for thin paper; on the contrary, the grain alignment should cross the paper feeding direction for thick paper, as doing so will make the paper softer for easier feeding.

Media Storage & Conditioning

For optimum conditioning, follow these paper storage guidelines :

- Leave paper in its wrapper until you are ready to load it in the machine.
- Do not store paper directly on the floor.
- Store paper at a temperature of 19°C to 23°C and a relative humidity of 40 to 60 % (Q-Zone).

Climate Control

- Store your paper on shelves or pallets or in cabinets rather than right on the floor to avoid moisture absorption.
- Choose an area that's protected from extreme temperatures and humidity. Temperature and humidity are critical factors in terms of how your paper performs in your printing system.

Do Not Open Until...

- To achieve best results, we recommend to leave reams sealed in their original ream wrapper, in the shipping carton during paper storage.
- Do not open the wrapper until you are ready to load the paper into your printing system. Once you open the wrapper, the protective barrier is gone and moisture can enter in and cause excessive curl and other problems.

Moisture

- High humidity causes damp edges and wavy paper. Low humidity dries paper edges and makes it contract and become tight.

Conditioning

- As a rule, condition uncoated paper a minimum of 24 hours and coated paper a minimum of 48 hours.
- Transparencies and label stock also require conditioning--24 hours and 72 hours, respectively. Separating cartons accelerates the conditioning process.
- Place/store the media 24 hours before printing already in printroom conditions (preferably next to the machine)

Customer Expectation Guide

Please refer to the bizhub PRESS C1100 Series Customer Expectation Guide for detailed customer information and recommendations for:



- **Paper Specifications:**
 - Paper setting
 - Reference
 - Paper size
 - Paper trays weight
 - Paper weight equipment
- **Image Quality**
- **Recommended papers – update**

Link to updated document on InfoPortal:

- **Internal link:** coming soon
- **External link:** coming soon

Recommended papers (KMI)

The bizhub PRESS C1100 series supports an extensive range of media. Exclusively using media recommended by Konica Minolta can help to maximize customers system's reliability and paper-handling capabilities.

Manufacturer	Name	Type	Weight (gsm)
Mondi	ColorCopy	Color Specific	90
Mondi	ColorCopy	Color Specific	100
Mondi	ColorCopy	Color Specific	120
Mondi	ColorCopy	Color Specific	160
Mondi	ColorCopy	Color Specific	200
Mondi	ColorCopy	Color Specific	220
Mondi	ColorCopy	Color Specific	250
Mondi	ColorCopy	Color Specific	280
Mondi	ColorCopy	Color Specific	300
Mondi	ColorCopy	Color Specific	350
Mondi	ColorCopy Coated Silk	Coated GO	135
Mondi	ColorCopy Coated Silk	Coated GO	170
Mondi	ColorCopy Coated Silk	Coated GO	200
Mondi	ColorCopy Coated Silk	Coated GO	250
Mondi	ColorCopy Coated Glossy	Coated GL	135
Mondi	ColorCopy Coated Glossy	Coated GL	170
Mondi	ColorCopy Coated Glossy	Coated GL	200
Mondi	ColorCopy Coated Glossy	Coated GL	250

Important Note:

- Heavyweight papers typically show increased deviations in formation and surface smoothness, which may result in reduced image quality. Dedicated information is given in chapter: “Exclusive approved 400gsm substrates”.
- It is not recommendable to use coated stock in ambient conditions where relative humidity exceeds 60 per cent.
- Stretching occurs in all paper qualities during printing. Ambient conditions and the paper type determine the amount of stretch, which is most prominent in coated stocks and may affect front-to-back image registration.
- Toner adherence depends heavily on the media type, and toner may not last on some types of special-coated paper. Some media may be inappropriate for the device. Consult the Media Database which lists certified and approved media, or your Konica Minolta service expert. Unlisted media may be inappropriate, or should at least be tested prior to production work to find out appropriate settings (if any) that ensure acceptable toner adhesion.
- Custom-cut paper can cause problems with image registration, image quality (i.e. white spots), and machine reliability. This is particularly likely if the paper is of poor quality, has been badly cut or if loose fibres remain on the edges after cutting.
- Image registration, image quality (i.e. white spots), and machine reliability might suffer if poor-quality punched or drilled paper is used. This is very likely to happen if loose hole plugs remain in the paper ream – measures must be taken to avoid this eventuality at all costs.

Exclusive approved 400gsm substrates

Exclusive approved 400gsm substrates to use on bizhub PRESS C1100/C1085
in simplex print mode:

Supplier*	Name	Type	Size	Weight (gsm)
Igepa	Heaven 42	Coated MO	SRA3	400
Igepa	genYous	Color paper	320 x 460	400
Mondi	ColorCopy	Color Paper	SRA3	400
Inapa	Prestige Art	Coated GO	SRA3	400
Inapa	Prestige Silk	Coated MO	SRA3	400

IMPORTANT INFORMATION:

When printing on 400gsm exclusive approved stock from the table above, only simplex printing is available. If duplex printing is required, users need to print on one side first, then manually reload the paper and print on the reverse.

When feeding the specified 400gsm exclusive approved stock, an increased wear of parts has to be taken into account. This will mainly affect the paper path components and in particular the fusing unit. Important factors of influence are the thickness and stiffness of the used substrates as well as the required higher temperature in the fusing unit. For this reason, the job length must not exceed 100 sheets in any print run, nor 5% of the actual total monthly print volume. No more than 4,000 printed sheets per month should be approved 400gsm media from the above table.

The processing of special, heavy media will result in a shortened lifetime of individual parts, which in turn will lead to higher service costs. As a consequence, Konica Minolta reserves the right to increase the service pricing.

Attempting to print on heavier media than recommended, or any heavy substrate other than the exclusive approved paper stock from the table above, and/or misuse of the media settings, may cause machine damage or poor image quality. Using media in a print mode other than that recommended for the grade may cause poor image quality and serious machine damage.

As with any printing process, artefacts will occur. These may include banding, streaks, mottle, spots, etc. For most jobs and clients, the expected level of artefacts will be within the normal operational and component quality ranges of the system and will not affect the acceptability of prints. Maintenance procedures are available to mitigate these artefacts. However, it is important to be aware that artefacts may occur with more intensity or frequency when printing on heavyweight coated media.

** for detailed information, please refer to the media list and datasheets in this document*

BEU Media Evaluation Results

The evaluation protocols take the following factors into account to ascertain the qualification of the tested media:

Paper Feed Quality	reliability, paper jam, wrinkle & more
Image Quality	image failure, roller marks & more
Other Quality	smear, fixing & more

Based on the test result for the measures shown in above table, the print quality is shown in the column „Total Rank“ in the Media list.

Definition of test results:

- A+** = Excellent (KMI only)
- A** = Good
- B** = Acceptable
- B** = Acceptable (after adjustment)
- C** = Not recommended*

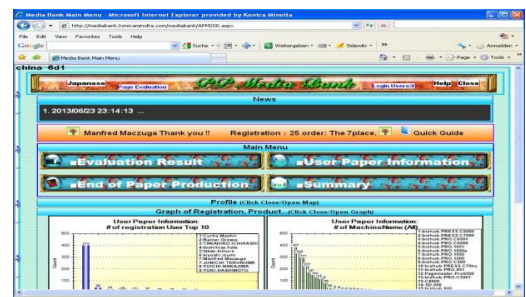
* Rank C results:

Although Rank „C“ is stated as not recommended, for certain applications the result might be acceptable.

More detailed information:

- please use the Konica Minolta Media Bank (CSES Users):
<http://10.203.20.23/mediabank/APF100.aspx>
- or contact the BEU Media Team:

Anja.Schappert@konicaminolta.eu
Manfred.Maczuga@konicaminolta.eu



Media list Rank A

Uncoated media - 400 gsm

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
GenYous	Igepa	Color Specific	SRA3	SG	400	442	16	423	A	A	A	A	slight banding for solids (R)
Color Copy	Papier Union	Color Specific	SRA3	SG	400	423	37	237	A	A	A	A	slight banding for halftones (B, BK)

Coated media - 400 gsm

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Prestige Silk	Papier Union	Coated matt laser	SRA3	SG	400	374	97	344	A	A	A	A	slight banding for solids (B,G)
Prestige Art	Papier Union	Coated gloss laser	SRA3	SG	400	326	284	265	A	A	A	A	slight banding for solids (B,G)
Heaven42 softmatt	Igepa	Coated matt offset	SRA3	LG	400	355	84	334	A	A	A	A	slight banding for halftones
Exceo silk	Inapa	Coated matt laser	SRA3	SG	400	374	97	344	A	A	A	A	slight banding for solids (B,G)
Exceo gloss	Inapa	Coated gloss laser	SRA3	SG	400	326	284	265	A	A	A	A	slight banding for solids (B,G)

Media list Rank A – continued

Coated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Algro Design	Papier Union	Coated gloss laser	SRA3	SG	240	N/A	N/A	N/A	A	A	A	A	
Algro Design Duo	Papier Union	Coated gloss laser	SRA3	SG	300	N/A	N/A	N/A	A	A	A	B	
Avanta Image	Papyrus	Coated gloss laser	SRA3	SG	250	380	N/A	N/A	A	A	A	A	
Chromolux Digital HW Drytoner	Papier Union	Coated gloss laser	SRA3	SG	240	N/A	N/A	N/A	A	A	A	A	curl adjustment +2, paper doesn't work from tray 3
Curious Metallics	Antalis	Coated gloss laser	SRA3	SG	240	N/A	N/A	N/A	A	A	A	A	
Digigreen Gloss	Antalis	Coated gloss laser	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	
Digital Coated Gloss	Antalis	Coated gloss laser	SRA3	N/A	350	N/A	N/A	N/A	A	A	A	A	
Digital Gloss	Igepa	Coated gloss laser	320 x 460mm	LG	130	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Gloss	Antalis	Coated gloss laser	SRA3	SG	170	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Gloss	Antalis	Coated gloss laser	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Gloss	Antalis	Coated gloss laser	SRA3	SG	350	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Coated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Image Digicolor Coated Gloss	Antalis	Coated gloss laser	SRA3	LG	100	N/A	N/A	N/A	A	A	A	A	
Inapa Infinity Gloss	Papier Union	Coated gloss laser	SRA3	LG	170	N/A	N/A	N/A	A	A	A	A	
Jet Speed chromegloss	Felix Schoeller	Coated gloss laser	SRA3	SG	190	N/A	N/A	N/A	A	A	A	A	paper surface shows some scratches
Lumiart gloss	Papier Union	Coated gloss laser	SRA3	SG	170	N/A	N/A	N/A	A	A	A	A	
PolarCard	Papier Union	Coated gloss laser	SRA3	SG	250	380	N/A	N/A	A	A	A	A	
Prestige Art	Papier Union	Coated gloss laser	SRA3	LG	170	N/A	N/A	N/A	A	A	A	A	
Prestige Art	Papier Union	Coated gloss laser	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	use paper profile
Image Coated Gloss	Antalis	Coated gloss laser	SRA3	N/A	350	N/A	N/A	N/A	A	A	A	A	
Gmund square white	Igepa	Coated gloss offset	SRA3	LG	300	N/A	N/A	N/A	A	A	A	A	need of increased fixing ability : Fusing Temperature Upper+20, Lower +10
Profigloss	Igepa	Coated gloss offset	SRA3	LG	135	N/A	N/A	N/A	A	A	A	A	
Stardream quartz	Igepa	Coated gloss offset	SRA3	LG	120	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Coated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Stardream Silver	Igepa	Coated gloss offset	SRA3	LG	285	N/A	N/A	N/A	A	A	A	A	
Cocoon silk	Antalis	Coated matt laser	SRA3	SG	115	N/A	N/A	N/A	A	A	A	A	
Condat Matt Perigord	Papier Union	Coated matt laser	SRA3	SG	170	N/A	N/A	N/A	A	A	A	A	
Digigreen Silk	Antalis	Coated matt laser	SRA3	LG	100	N/A	N/A	N/A	A	A	A	A	
Digigreen Silk	Antalis	Coated matt laser	SRA3	N/A	350	350	N/A	19,2	A	A	A	A	
Digital Silk	Igepa	Coated matt laser	320x460mm	LG	130	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Silk	Antalis	Coated matt laser	SRA3	SG	170	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Silk	Antalis	Coated matt laser	SRA3	LG	100	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Silk	Antalis	Coated matt laser	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	
Image Digicolor Coated Silk	Antalis	Coated matt laser	SRA3	SG	350	N/A	N/A	N/A	A	A	A	A	
Inapa Infinity Silk	Papier Union	Coated matt laser	SRA3	SG	200	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Coated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Inapa Shyne Silver	Papier Union	Coated matt laser	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	
Inaset Plus Laser	Papier Union	Coated matt laser	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	slightly wavy
Infinity	Papier Union	Coated matt laser	SRA3	LG	170	N/A	N/A	N/A	A	A	A	A	Condat Digital Silk
Lumisilk	Papier Union	Coated matt laser	SRA3	SG	135	N/A	N/A	N/A	A	A	A	A	
Lumisilk matt gestrichen	Papier Union	Coated matt laser	SRA3	SG	350	N/A	N/A	N/A	A	A	A	A	
Majestic	Inapa	Coated matt laser	SRA3	SG	290	N/A	N/A	N/A	A	A	A	A	Before: Inapa Shyne Pearly White
Majestic	Papier Union	Coated matt laser	SRA3	LG	120	N/A	N/A	N/A	A	A	A	A	Inapa Shyne gold
Multiart silk	Papyrus	Coated matt laser	SRA3	LG	300	N/A	N/A	N/A	A	A	A	A	
Multiart silk	Papyrus	Coated matt laser	SRA3	LG	170	N/A	N/A	N/A	A	A	A	A	
Multiart silk	Papyrus	Coated matt laser	SRA3	LG	115	N/A	N/A	N/A	A	A	A	A	
Prestige Silk	Papier Union	Coated matt laser	SRA3	LG	250	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Coated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Prestige Silk	Papier Union	Coated matt laser	SRA3	LG	135	N/A	N/A	N/A	A	A	A	A	
Trucard 2 Matt Bright White	Papier Union	Coated matt laser	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	
Image Coated Silk	Antalis	Coated matt laser	SRA3	N/A	350	N/A	N/A	N/A	A	A	A	A	
California Duo	Igepa	Coated matt offset	SRA3	SG	240	255	N/A	N/A	A	A	A	A	Ensocoat S2
Curious Skin	Antalis	Coated matt offset	SRA3	SG	270	N/A	N/A	N/A	A	A	A	A	
Galaxi Keramik	Papier Union / Inapa	Coated matt offset	SRA3	SG	115	N/A	N/A	N/A	A	A	A	A	
Galaxi Keramik	Inapa	Coated matt offset	SRA3	SG	170	N/A	N/A	N/A	A	A	A	A	
Heaven42 softmatt	Igepa	Coated matt offset	SRA3	LG	135	N/A	N/A	N/A	A	A	A	A	
Invercote Creato	Igepa	Coated matt offset	SRA3	LG	200	N/A	N/A	N/A	A	A	A	A	
Profisilk	Igepa	Coated matt offset	SRA3	LG	135	N/A	N/A	N/A	A	A	A	A	
Profisilk	Igepa	Coated matt offset	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	To avoid smear issue set *Separation for Front AC and DC *Reduce separation air
Robuskin PET 125 BSCL	Papier Union	Polyester Film	SRA3	SG	190	150	>50	N/A	A	A	A	A	
Robuskin PET 175 BSCL	Papier Union	Polyester Film	SRA3	SG	260	200	>50	N/A	A	A	A	A	
Circlegloss Premium White	Igepa	Recycling paper	SRA3	SG	170	N/A	N/A	N/A	A	A	A	B	slightly curly and wavy; set humidifier to OFF
Circlesilk Premium White	Igepa	Recycling paper	SRA3	SG	135	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Uncoated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Color Copy Style	N/A	Color Specific	SRA3	N/A	100	N/A	N/A	N/A	A	A	A	A	
DCP	N/A	Color Specific	A3	LG	250	N/A	N/A	N/A	A	A	A	A	
DCP	N/A	Color Specific	A3	SG	120	N/A	N/A	N/A	A	A	A	A	
DCP Blanc White	N/A	Color Specific	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
DNS Color Print	N/A	Color Specific	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	
DNS Color Print	N/A	Color Specific	SRA3	SG	160	N/A	N/A	N/A	A	A	A	A	
DNS Color Print	N/A	Color Specific	SRA3	LG	80	N/A	N/A	N/A	A	A	A	A	
Hi plus + premium	N/A	Color Specific	A4	LG	75	N/A	N/A	N/A	A	A	A	A	Slight curls and waves occur. To avoid curling for face-up simplex prints - set: humidifier OFF and curl to +1
IQ Premium	N/A	Color Specific	A4	LG	70	N/A	N/A	N/A	A	A	A	A	Humidifier off; curl adjustment - 2
IQ Selection Smooth	N/A	Color Specific	A4	LG	160	N/A	N/A	N/A	A	A	A	A	
Maestro Supreme	Igepa	Color Specific	A4	LG	80	N/A	N/A	N/A	A	A	A	A	humidifier off; curl adjustment +2
Maestro Supreme	Igepa	Color Specific	SRA3	SG	80	N/A	N/A	N/A	A	A	A	A	
Maestro Supreme	Igepa	Color Specific	SRA3	N/A	160	N/A	N/A	N/A	A	A	A	A	
Navigator Color Documents	Igepa	Color Specific	A3	N/A	120	N/A	N/A	N/A	A	A	A	A	
Navigator Expression	Igepa	Color Specific	A3	LG	90	N/A	N/A	N/A	A	A	A	A	curl adjustment - 2

Media list Rank A – continued

Uncoated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Navigator Presentation	Igepa	Color Specific	A3	LG	100	N/A	N/A	N/A	A	A	A	A	
Crush Olive Feinstpapier	Igepa	Fine	SRA3	LG	250	N/A	N/A	N/A	A	A	A	A	
Elfenbeinkarton Leinenprägung	Igepa	Fine	SRA3	LG	246	N/A	N/A	N/A	A	A	A	A	
Majestic Luxus Real Gold	Papyrus	Fine	SRA3	N/A	120	N/A	N/A	N/A	A	A	A	A	
MultiDesign original white	Papyrus	Fine	SRA3	SG	150	N/A	N/A	N/A	A	A	A	A	
MultiDesign original white	Papyrus	Fine	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	
MultiDesign original white	Papyrus	Fine	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
SoporSet Premium Offset	Igepa	Fine	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	
SoporSet Premium Offset	Igepa	Fine	SRA3	SG	350	N/A	N/A	N/A	A	A	A	A	
ZANDERS Medley pure white	Papier Union	Fine	SRA3	LG	250	N/A	N/A	N/A	A	A	A	A	
DPS	Papier Union	Fine	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
Evergreen Classic	Igepa	Fine	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
Extra plus feel	Igepa	Fine	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	
Extra plus linen	Igepa	Fine	SRA3	SG	250	N/A	N/A	N/A	A	A	A	A	
Inapa techno colour laser	Inapa	Fine	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
Medley pure cream	Papier Union	Fine	SRA3	LG	250	N/A	N/A	N/A	A	A	A	A	
SoporSet Premium Pre-Print	Igepa	Fine	SRA3	SG	300	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Uncoated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (mm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Amber graphic	Papier Union / Inapa Igepa	Plain	320 x470 mm	LG	130	N/A	N/A	N/A	A	A	A	A	
Bio Top 3 Extra	Igepa	Plain	A3	SG	90	N/A	N/A	N/A	A	A	A	A	
Bio Top 3 Next	N/A	Plain	A3	LG	90	N/A	N/A	N/A	A	A	A	A	
Conqueror laid brilliant white	Antalis	Plain	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
DNS Performance	N/A	Plain	SRA3	SG	80	N/A	N/A	N/A	A	A	A	A	
DNS Performance	N/A	Plain	A4	N/A	80	N/A	N/A	N/A	A	A	A	A	
DNS Performance	N/A	Plain	A4	N/A	160	N/A	N/A	N/A	A	A	A	A	
DNS Premium	Papier Union	Plain	SRA3	N/A	300	N/A	N/A	N/A	A	A	A	A	
Image Impact	Antalis	Plain	SRA3	LG	90	N/A	N/A	N/A	A	A	A	A	
Maestro Extra	N/A	Plain	A4	LG	70	N/A	N/A	N/A	A	A	A	A	humidifier off ; curl adjustment +2
Pure white	Berberich Igepa Papyrus Papier Union	Recycling paper	A3	LG	80	N/A	N/A	N/A	A	A	A	A	
Classic white	Berberich Igepa Papyrus Papier Union	Recycling paper	A4	LG	80	N/A	N/A	N/A	A	A	A	A	
Evercopy colour laser	Antalis	Recycling paper	A4	LG	90	N/A	N/A	N/A	A	A	A	A	
Evercopy colour laser	Antalis	Recycling paper	A4	LG	160	N/A	N/A	N/A	A	A	A	A	
Evercopy colour laser	Antalis	Recycling paper	A4	LG	250	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Uncoated media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (µm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Evolution White	Berberich Igepa Papyrus Papier Union	Recycling paper	A4	LG	80	N/A	N/A	N/A	A	A	A	A	
Pure white	Berberich Igepa Papyrus Papier Union	Recycling paper	A4	LG	80	N/A	N/A	N/A	A	A	A	A	curl adjustment +2
Trend white	Berberich Igepa Papyrus Papier Union	Recycling paper	A4	LG	80	N/A	N/A	N/A	A	A	A	A	curl adjustment +2
Environment Digi natural	Igepa	Recycling paper	SRA3	LG	118	N/A	N/A	N/A	A	A	A	A	
Nautilus Classic	N/A	Recycling paper	A3	LG	80	N/A	N/A	N/A	A	A	A	A	
Nautilus Super White	N/A	Recycling paper	SRA3	SG	80	N/A	N/A	N/A	A	A	A	A	
Nautilus Universal	N/A	Recycling paper	SRA3	N/A	70	N/A	N/A	N/A	A	A	A	A	
Eural EcoPro	Papier Union	Recycling paper	SRA3	SG	100	N/A	N/A	N/A	A	A	A	A	
Inapa Oxygen Silk	Papier Union	Recycling paper	SRA3	SG	90	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Speciality media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (mm)	Smooth-ness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
IDEM Digital CB/CFB/CF carbonless	Papier Union Antalis	Carbonless Paper	SRA3	LG	80	N/A	N/A	N/A	A	A	N/A	N/A	*Please refer to advices at the end of spreadsheet
IDEM Digital CB/CFB/CF carbonless	Papier Union Antalis	Carbonless Paper	A4	LG	80	N/A	N/A	N/A	A	A	N/A	N/A	*Please refer to advices at the end of spreadsheet
Coated Ultra Gloss, White Permanent Diagonal Scoreback	Papier Union	Label	320 x 460 mm	N/A	80	55	N/A	N/A	A	A	A	A	*Avoid moisture *Lots of static due to material *Use paper profile settings *print mode face down recommended
Mastertac Laser Spezialpapier	Papier Union	Label	SRA3	LG	74	N/A	N/A	N/A	A	A	A	A	
PCL3 51MCG Tea label	Papier Union	Label	SRA3	N/A	136-162	N/A	N/A	N/A	A	A	A	A	*Paper weight setting : 136-162gsm
PCL3-75110AWL	Papier Union	Label	SRA3	N/A	250	N/A	N/A	N/A	A	A	A	A	Paper mill recommendation: print single sheets Material tends to coil up at edges, especially after printing
PCL3-MC	Papier Union	Label	SRA3	LG	190	172	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Speciality media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
PET white matt	Papier Union	Label	SRA3	N/A	74	50	N/A	N/A	A	A	A	A	*Avoid moisture *Lots of static due to material *Use paper profile settings * print mode face down recommended
Polyolefin laser, white matt permanent w/o scoreback	Papier Union	Label	SRA3	N/A	115	173	N/A	N/A	A	A	A	A	*Avoid moisture *Lots of static due to material *Use paper profile settings *print mode face down recommended
BG-72 white gloss	Inapa	Label	SRA3	LG	N/A	180	N/A	N/A	A	A	A	A	*Avoid moisture *Light static due to material *Use paper profile settings
Longlife pro matt	Inapa	Label	SRA3	LG	N/A	140	N/A	N/A	A	A	A	A	*Avoid moisture *Light static due to material *Use paper profile settings
PET Transparent Gloss	Papier Union	Label	SRA3	N/A	70	50	N/A	N/A	A	A	A	A	*Avoid moisture *Lots of static due to material *Use paper profile settings *print mode face down recommended
Zanders Spectral	Igepa	Other	SRA3	SG	200	N/A	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Speciality media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Expert 12 White Matt Film 125gsm/95µ	AppFactory	Polyester Film	SRA3	LG	125	95	N/A	N/A	A	A	A	A	
Expert 16 White Matt Film 160gsm/120µ	AppFactory	Polyester Film	SRA3	LG	160	120	N/A	N/A	A	A	A	A	
Expert 17G Pastel Green Film 170gsm/130µ	AppFactory	Polyester Film	SRA3	LG	170	130	N/A	N/A	A	A	A	A	Some areas may be cloudy for heavy solid coverage
Expert 17P Pastel Pink Film 170gsm/130µ	AppFactory	Polyester Film	SRA3	LG	170	130	N/A	N/A	A	A	A	A	Some areas may be cloudy for heavy solid coverage
Expert 17Y Pastel Yellow Film 170gsm/130µ	AppFactory	Polyester Film	SRA3	LG	170	130	N/A	N/A	A	A	A	A	Some areas may be cloudy for heavy solid coverage
Expert 19 White Matt Film 190gsm/145µ	AppFactory	Polyester Film	SRA3	LG	190	145	N/A	N/A	A	A	A	A	
Expert 22 White Matt BOPP Film 220gsm/190µ	AppFactory	Polyester Film	SRA3	LG	220	190	N/A	N/A	A	A	A	A	Some areas may be cloudy for heavy solid coverage
Expert 26 White Matt Film 260gsm/195µ	AppFactory	Polyester Film	SRA3	LG	260	195	N/A	N/A	A	A	A	A	
Expert 26TT Pre-cut White Matt Film Table Triangel	AppFactory	Polyester Film	A4	N/A	260	195	N/A	N/A	A	A	A	A	

Media list Rank A – continued

Speciality media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Expert 27BL Backlight Film	AppFactory	Polyester Film	A4S	N/A	270	195	N/A	N/A	A	A	A	A	
Expert 28 White Matt BOPP Film 280gsm/250µ	AppFactory	Polyester Film	SRA3	LG	280	250	N/A	N/A	A	A	A	A	Some areas may be cloudy for heavy solid coverage
Expert 36 Matt White Film	AppFactory	Polyester Film	A4S	N/A	356	270	N/A	N/A	A	A	A	A	
Expert 85 WMP Permanent Self-Adhesive, Marine Grade	AppFactory	Polyester Film	A4	N/A	85	60	N/A	N/A	A	A	A	A	
Stafix Grip	Igepa	Polyester Film	SRA3	SG	185	180	N/A	N/A	A	A	A	A	* the material tends to coil up at the edges especially after printing * causes lots of static
Yupo Tako XAD 1077	Papier Union	Polyester film	SRA3	SG	254	233	N/A	N/A	A	A	A	A	*causes lots of static *Q-Zone recommended
Zanders T2000	Igepa	Transparent	SRA3	LG	110	N/A	N/A	N/A	A	A	A	A	

***Carbonless paper / IDEM:**

Humidifier setting for tray 3,4,5 set to OFF ,Output Stacker 1 Main tray. Simplex and duplex were used for printing. On CB paper duplex print, on CFB paper and CF paper simplex print.

Note:

paper contains chemical substances, higher wear of parts and higher service costs have to be expected !

Media list Rank B

No media rated as Rank B

Media list Rank C

Coated Media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Chromolux 700	Igepa	Coated gloss offset	SRA3	SG	250	N/A	N/A	N/A	C	A	A	C	paper is not scratch resistant
Chromolux 700	Igepa	Coated gloss offset	SRA3	SG	275	N/A	N/A	N/A	C	A	A	C	print is not scratch resistant
Cocoon Silk	Antalis	Coated matt laser	SRA3	N/A	350	N/A	N/A	N/A	C	A	A	C	Evaluation not passed due to smear issue; result might be acceptable for certain applications.
Digigreen Gloss	Antalis	Coated gloss laser	SRA3	N/A	350	280	N/A	12	C	A	A	C	evaluation not passed due to fixing issue; result might be acceptable for certain applications
Digital Coated Gloss	Antalis	Coated gloss laser	SRA3	N/A	200	N/A	N/A	N/A	C	A	A	C	Evaluation not passed due to smear issue; result might be acceptable for certain applications.
Digital Coated Silk	Antalis	Coated matt laser	SRA3	N/A	350	N/A	N/A	N/A	C	A	A	C	evaluation not passed due to fixing issue; result might be acceptable for certain applications

Media list Rank C – continued

Coated Media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight(gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Image Coated Silk	Antalis	Coated matt laser	SRA3	N/A	120	N/A	N/A	N/A	C	A	A	C	Evaluation not passed due to smear issue; result might be acceptable for certain applications.
Invercote G	Igepa	Coated matt offset	SRA3	LG	280	N/A	N/A	N/A	C	C	A	C	*paper jams J-3102 very often due to paper characteristics (Stiffness, thickness) *cracks on coating
Profigloss	Igepa	Coated gloss offset	SRA3	SG	300	N/A	N/A	N/A	C	A	A	C	Evaluation not passed due to smear issue; result might be acceptable for certain applications.
Trucard 1 Gloss	Antalis	Coated gloss laser	SRA3	N/A	260	N/A	N/A	N/A	C	A	A	C	Evaluation not passed due to smear issue; result might be acceptable for certain applications. Jam occurs very often when printing duplex.

Media list Rank C – continued

Uncoated Media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
ZANDERS Zeta glatt	Papier Union	Plain	SRA3	LG	120	N/A	N/A	N/A	C	A	A	C	evaluation not passed due to fixing issue; result might be acceptable for certain applications
Munken Polar	Papyrus	Fine	SRA3	SG	300	420	N/A	N/A	C	C	A	A	J-1610 paper jam occurs too often

Speciality Media

Brand Name	Paper Distributor	Paper Type	Size	Paper Grain	Weight (gsm)	Paper Thickness (µm)	Smoothness (sec)	Stiffness (mN)	Total Rank	Feed Rank	Image Rank	Other Rank	Remarks
Cromático Transwhite	Papier Union	Other	A3	LG	180	N/A	N/A	N/A	C	A	A	A	evaluation not passed due to fixing issue; result might be acceptable for certain applications

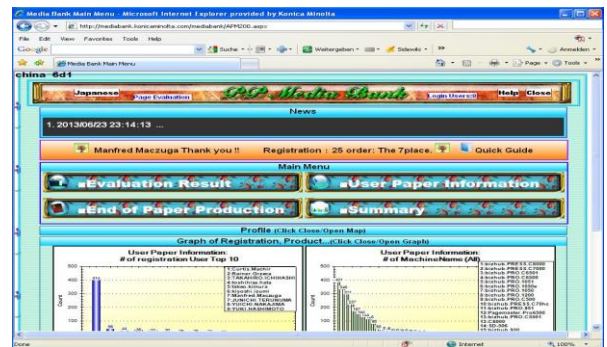
Media Bank - Status Update

BEU evaluation results are uploaded to the worldwide media database “Media Bank” after a test has been finalized. The detailed test result can be found on:

<http://10.203.20.23/mediabank/APF100.aspx>

Direct Access to Media Bank:

- in place already for CSES OCP Users



Indirect Access to Media Bank:

- BEU test entries are uploaded to InfoPortal frequently (.xlsx)
- Communication via email and/or monthly newsletter from BEU Media Team to local marketing.

The screenshot shows an Excel spreadsheet titled 'Evaluation result'. The table contains the following data:

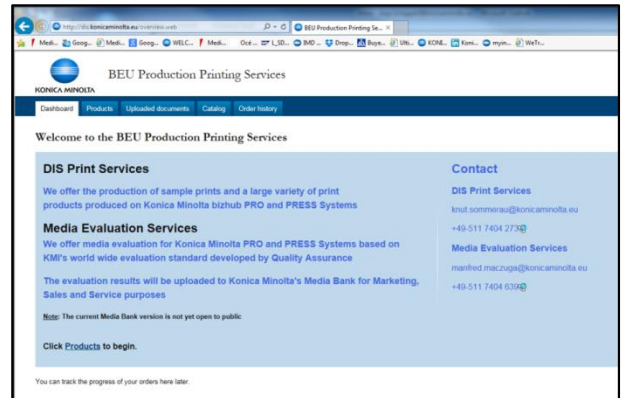
Registration number	Page Size	Page Count	Page Type	Page Date	Page Title	Page URL	Page Author	Page Address
1	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
2	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
3	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
4	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
5	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
6	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
7	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
8	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
9	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
10	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
11	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
12	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
13	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
14	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
15	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
16	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
17	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
18	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
19	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx
20	1024x768	1	Image	2010/06/23 14:13	Manfred Maczuga Thank you!!	http://10.203.20.23/mediabank/APF100.aspx	Manfred Maczuga	http://10.203.20.23/mediabank/APF100.aspx

For latest test results and new media uploads, please refer to these Excel files.

BEU Media Evaluation Service

To address any **new local media evaluation request** to BEU Media Team, please make use of to the new request process:

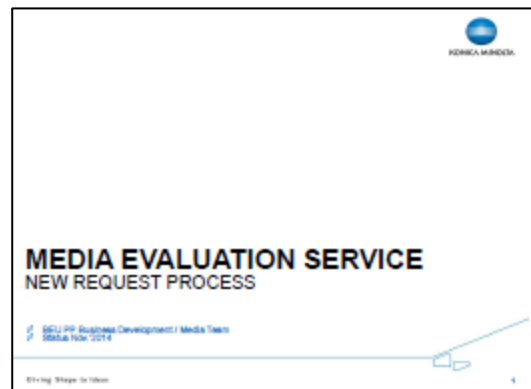
- Shared platform with DIS Print Service
- Adapted print order workflow to suit evaluation request needs
- Up-to-date request form
- Order tracking & Evaluation status view



For detailed information:
Please refer to a presentation uploaded to InfoPortal:

Contents:

1. BEU offerings
2. Current Request Process
3. New Request Process
4. Login data
5. Steps for Media Evaluation request



Link to InfoPortal:

Internal link:

http://infoportal.bs.kme.intern/2/25/media%20evaluation%20_new%20webshop_V1.2.pptx

External link:

https://infoportal.konicaminolta.eu/2/25/media%20evaluation%20_new%20webshop_V1.2.pptx

Appendix

ISO 187:1990

ISO 187 specifies the standard atmosphere for conditioning and testing pulp, paper, and board, and also the procedures for measuring the temperature and relative humidity.

For the conditioning of laboratory prepared hand sheets in accordance with ISO 5269-1, the standard atmosphere is that defined in this standard, but the procedure is different.

Annex A covers the measurement of temperature and relative humidity.

Annex B (informative) describes the interdependence of temperature and relative humidity.

This second edition cancels and replaces the first edition (1977) which has been technically revised. Standard was last reviewed in 2013.

For more details please refer to the full article:

<https://www.iso.org/obp/ui/%20#iso:std:iso:187:ed-2:v1:en>

The screenshot shows the ISO website interface for the standard ISO 187:1990. The page title is "ISO 187:1990 Paper, board and pulps -- Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples". It features a navigation bar with "Standards", "About us", "Standards Development", "News", and "Store". A search bar is located in the top right. The main content area includes a "This standard was last reviewed" in 2013 notice, an "Abstract" section, and a "General information" table. The table lists the edition as 2 (Monolingual), ICS as 85.060.85.040, status as Published, stage as 90.03 (2013-10-04), and number of pages as 8. There are also options to preview the standard, add it to a basket, and sign up for a newsletter.

The screenshot shows the full article page for ISO 187:1990(en) on the ISO website. The page title is "ISO 187:1990(en) Paper, board and pulps -- Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples". It features a navigation bar with "Standards", "About us", "Standards Development", "News", and "Store". A search bar is located in the top right. The main content area includes a "Table of contents" on the left, a "Foreword" section, and an "Introduction" section. The foreword states that the International Organization for Standardization (ISO) is a worldwide federation of national standards bodies (ISO member bodies) and that the work of preparing International Standards is normally carried out through ISO technical committees. The introduction discusses the physical properties of paper and the standard atmosphere for conditioning and testing.

Datasheets 400gsm substrates

Heaven 42



Qualitätsmanagement

Technisches Datenblatt / technical datasheet

heaven 42
softmatt

Parameter parameter	Flächengewicht weight	Dicke caliper	spezif. Volumen bulk	CIE Weiße CIE whiteness	ISO Weiße ISO brightness	Opazität opacity	Biegesteifigkeit bending stiffness
Einheit unit	g/m ²	µm	cm ³ /g	%	%	%	mNm
Norm standard	ISO 536	ISO 534	ISO 534	ISO 11475	ISO 2470	ISO 2471	Berechnung aus Ultraschallmessun g
Bemerkungen comment				D65 / 10°	D65 / 10°		l/q / md/cd
Toleranz tolerance	± 7%	± 7%	± 5%	± 2	± 2	-0,5	± 15%
	115	100	0,87	157	107,0	96,3	0,8 / 0,5
	135	121	0,90	157	107,0	97,3	1,6 / 1,0
	150	130	0,87	157	107,0	98,0	1,8 / 1,3
	170	150	0,88	157	107,0	98,6	2,5 / 1,8
	185	163	0,88	157	107,0	99,0	3,5 / 2,3
	200	178	0,89	157	107,0	99,2	4,1 / 2,9
	250	224	0,90	157	107,0	99,8	7,6 / 5,2
	300	278	0,93	157	107,0	99,9	14,1 / 9,1
	400	353	0,88	157	107,0	100,0	30,8 / 23,3
	500	465	0,93	157	107,0	100,0	63,0 / 45,0

Bei allen Werten handelt es sich um Zielwerte.
Einzelne Werte können in der industriellen Streuung nach oben oder unten abweichen.
All data are targets, single measurements may vary in industrial ranges.

heaven 42 - Certificate of compliance

<p>DR. RALPH DERRA Öffentlich bestellter und vereidigter Sachverständiger für Verpackungsmaterialien, Boden- und Luftanalysen</p>	<p>Akkreditiert gemäß DIN EN ISO / IEC 17025 DIN EN 45011 DACH DAC-PL-0035-97-20 DAC-ZE-002-08</p>	<p>ISEGA – Forschungs- und Untersuchungs- Gesellschaft mbH Aschaffenburg</p>
<p>63704 Aschaffenburg, Postfach 100565 63741 Aschaffenburg, Zeppelinstr. 3-5 Germany Telefon +49 (0) 60 21 / 49 89-0 Telefax +49 (0) 60 21 / 49 89-30 Email info@isega.de http://www.isega.de</p>		
<p>4 June 2013 Dr. Dr/dr-ba/bru</p>		
<p>UNBEDENKLICHKEITSERKLÄRUNG CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE</p>		
<p>eingetragen registered no. registré</p>	<p>35655 U 13</p>	
<p>für Firma for Messrs pour MM</p>	<p>Papierfabrik Scheufelen GmbH & Co. KG Adolf-Scheufelen-Straße 26 73252 Lenningen Germany</p>	
<p>Produkt Product Produit</p>	<p>heaven 42</p>	
<p>The product manufactured by the company mentioned above is a paper grade which is used for food packaging.</p>		
<p>It was examined by us according to the</p>		
<p>"Methoden zur Untersuchung von Papieren, Kartons und Pappen für Lebensmittelverpackungen", Stand 2008, entsprechend der Vorschrift Nr. 80.56 in der Amtlichen Sammlung von Untersuchungsverfahren nach § 64 des Lebensmittel- und Futtermittelgesetzbuchs - LFGB,</p>		
<p>("Methods for testing papers and boards for food packaging", state of 2008, corresponding to the method no. 80.56 within the Official Collection of Test Methods according to § 64 of the Foodstuffs and Animal Feed Code - LFGB),</p>		
<p>for the used raw materials, fabrication additives and special paper finishing agents as well as for the release of substances which might endanger health.</p>		
<p>Geschäftsführer: Dr. Ralph Derra - Handelsregister: Aschaffenburg HRB 3329 - 2 -</p>		
<p>Die Veröffentlichung von Ergebnissen unserer Arbeiten und Gutachten sowie die Verwendung für Werbezwecke bedürfen – auch auszugsweise – unserer schriftlichen Genehmigung. Erfüllungsort und Gerichtsstand Aschaffenburg</p>		

Page 2 of the document of 4 June 2013 ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH Aschaffenburg

35655 U 13

Furthermore, the migration of various elements was examined according to the

DIN EN 71, part 3 "Safety of Toys, Migration of Certain Elements", state of May 2003,

And the absence of non-approved amines and colorants according to the

DIN EN 71, part 10 "Safety of Toys, Organic chemical compounds – Sample preparation and extraction", state of March 2006,

as well as to the

DIN EN 71, part 11 "Safety of Toys, Organic chemical compounds – Methods of analysis", state of January 2006.

The paper grade is in compliance with the rules of the

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC, Official Journal of the European Union L 338/4 of 13.11.2004, modified by app. no. 5.17 of the regulation (EC) No 596/2009 of 18 June 2009, Official Journal of the European Union L 188 of 18 July 2009, article 3,

as well as of the

Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch (Lebensmittel- und Futtermittelgesetzbuch - LFGB) in der Fassung der Bekanntmachung vom 22. August 2011 (BGBl. I S. 1770), zuletzt geändert durch Artikel 1 der Verordnung vom 3. August 2012 (BGBl. I S. 1708), §§ 30 und 31,

(Foodstuffs, Consumer Goods and Animal Feed Code (Foodstuffs and Animal Feed Code - LFGB) in the version of the notification of 22 August 2011 (BGBl. I p. 1770), last amendment by article 1 of the Decree of 3 August 2012 (BGBl. p. 1708), §§ 30 and 31),

and is approved according to the

Deutsche Empfehlung XXXVI zur gesundheitlichen Beurteilung von Materialien und Gegenständen für den Lebensmittelkontakt im Rahmen des Lebensmittel- und Futtermittelgesetzbuches, 34. Mitteilung, Bundesgesundheitsblatt 10, 14 (1967), einschließlich 214. Mitteilung, Bundesgesundheitsblatt 55, 291-294 (2012), Stand vom 1.1.2012,

(German Recommendation XXXVI for the health-related evaluation of materials and objects for the contact with foodstuffs in the frame of the Foodstuffs and Animal Feed Code, 34th memorandum, Bundesgesundheitsblatt 10, 14 (1967), including the 214th memorandum, Bundesgesundheitsblatt 55, 291-294 (2012), state of 1 January 2012).

The requirements of the

DIN EN 71, part 3 "Safety of Toys, Migration of Certain Elements", state of May 2003,

and of the

Page 3 of the document of 4 June 2013 ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH Aschaffenburg

35655 U 13

DIN EN 71, part 9 "Safety of Toys, Organic chemical compounds – Requirements", state of September 2007,

are kept by the paper grade.

Thus the paper grade heaven 42 according to the sample material submitted may be used safely for food packaging. It may stand in direct contact with dry, non-fatty foodstuffs.

This certificate of compliance has a validity of 2 years. It consists of 4 pages.

Staatlich anerkannter Sachverständiger
zur Untersuchung der Gegenprobe von
Verpackungsmitteln aus Papier, Pappe,
Kunststoff, Glas, Weichblech und
sonstigen Metallbeschichten auf ihre
Lebensmittelrechtliche Unbedenklichkeit

(Burkardt)
Officially certified
and authorized food
chemist



The translation of the above stamps is given on page 4.
La traduction des estampilles est donnée en page 4.

genYous



genYous®

Satiniert holz frei weiß Premium-Digitaldruckkarton / Smooth calendered woodfree premium digital board

Grammatur / BasisWeight g/m ²	90	100	120	170	200	250	300	350	400
Dicke / Thickness ISO 534 µm	105	116	140	195	230	290	350	405	450
Spez. Volumen / Spec. Volume ISO 534 cm ³ /g	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,16	1,12
CIE Weiße / Whiteness ISO 11475 %	168	168	168	168	168	168	168	168	168
Opazität / Opacity ISO 2471 %	> 93	> 94	> 95	> 99	> 99	> 99	> 99	> 99	> 99
Glatte / Smoothness Bekk ISO 5627 sec.	40	40	35	30	25	25	25	25	25
abs. Feuchte / abs. Humidity ISO 287 %	6,50	6,50	6,50	6,50	6,50	6,50	6,50	6,50	6,50

Ziel-Produktionswerte Stand September 2015
Target production values updated September 2015



Certified for
HP Indigo

Herstellerangaben
Instructions of Manufacturer

Der Hersteller ist für die Richtigkeit und Einhaltung der Angaben verantwortlich.
The Manufacturer is responsible for the validity of facts and figures.

Zertifikate und Labels
Certificates and Labels

FSC® Mix-zertifiziert / FSC® Mix certified,
HP Indigo-zertifiziert / HP Indigo certified 100 - 400 g/m²
Für Trockentonerverfahren geeignet / suitable for dry toner applications 90 - 400 g/m²
ISO 9001, ISO 14001, Permanent Paper ISO 9706

Hinweis

Alle Angaben zu den Digitaldruck-Verfahren sind Empfehlungen und ausdrücklich keine Garantien.
Bitte beachten Sie die Anforderungen der Digitaldruckmaschinenhersteller und deren Spezifikationen zur Verwendung und Eignung der Bedruckmaterialien.

Advice

Regionale Unterschiede in den Spezifikationen möglich,
bitte fragen Sie dazu Ihre zuständige Igepa Fachberatung.
Regional variations in specifications may apply;
please contact your local Igepa Sales office for more information.

mondi Color Copy

www.mondigroup.com



Color Copy - the leading paper guarantees you needle-sharp printouts and brilliant colour reproduction, especially with digital colour laser printing. It is perfectly suitable for documents such as presentations, direct mailings, manuals, corporate plans, business cards and envelopes. Now CO2 neutral!



Technical Data: Color Copy

Basis weight	g/m ²	ISO 536		400 ± 12.0
Caliper	µm	ISO 534		415 ± 12
Stiffness 15°/10mm	MD mN	ISO 2493-1	min	2900
Stiffness 15°/10mm	CD mN	ISO 2493-1	min	1300
Smoothness Bekk	sec	ISO 5627		70 ± 30
Opacity	%	ISO 2471	min	99.0
Brightness UV	%	ISO 2470		110.0 ± 1.5
CIE Whiteness	%	ISO 11475		161 ± 3.0

Product meets EN 12281, requirements for copy paper for dry toner imaging processes and ISO 9706, requirements for permanence for paper. Production processes certified according to ISO 9001, ISO 14001 and OHSAS 18001. Standard measurement uncertainty between laboratories is not incorporated.

SIGNIFICANCE OF VALUES: 2 SIGMA

Prestige SILK



Exceo Silk

two-side multicoated, woodfree, silky, high-white and bright

Main Application: sheet fed offset printed graphical end uses
high quality image and text reproduction

Datasheet

Property	Test Method	Substance g/m ²						
		150	170	200	250	300	350	400
Substance, g/m ²	DIN EN ISO 538, balance	150	170	200	250	300	350	400
ISO brightness, %	ISO 2470 - 2	98	98	98	98	98	98	98
CIE whiteness, %	ISO 475	122	122	122	122	122	122	122
Opacity, %	DIN 53146, D65, Elrepho	96	96,5	97,5	98,5	99	99	99
Gloss, %	ISO 8254 - 1	24	24	30	30	30	30	30
Bulk, cm ³ /g	ISO 534	0,88	0,88	0,88	0,9	0,95	0,95	0,95
PPS roughness, µm	ISO 8791-4	1,5	1,5	1,4	1,4	1,7	1,8	2

Certificates:

ISO 9001
ISO 14001
ISO 50001
OHSAS 18001
FSC® CoC
PEFC™ CoC
EMAS

Tests are conducted at standard atmosphere of 23°C and 50% relative humidity according to DIN 50014. The technical readings with tolerances and their max. and min. values respectively are standard values of our production. The tolerances are considered to be correctly met when 95% of the values ascertained comply with the mentioned data. Beyond that 4,5% of the tested individual values shall not deviate by more than up to 1,5-fold of the tolerance. In the maximum only 0,5% of the individual testings shall exceed the 1,5-fold tolerance range. Adhering to the tolerance is based on DIN 19306-7.3; determination as per DIN 55302, item 1. All technical data are subject to alteration. As the figures are standard values, they do not form a constituent part of our sales conditions.

Prestige ART



Exceo Gloss

two-side multicoated, woodfree, glossy, high-white and bright

Main Application: sheet fed offset printed graphical end uses
high quality image reproduction

Datasheet

Property	Test Method	Substance g/m ²						
		150	170	200	250	300	350	400
Substance, g/m ²	DIN EN ISO 536, balance	150	170	200	250	300	350	400
ISO brightness, %	ISO 2470 - 2	98	98	98	98	98	98	98
CIE whiteness, %	ISO 475	122	122	122	122	122	122	122
Opacity, %	DIN 53146, D65, Elrepho	95	96	96,5	98	99	99	99
Gloss, %	ISO 8254 - 1	70	70	70	70	70	70	70
Bulk, cm ³ /g	ISO 534	0,77	0,8	0,8	0,8	0,8	0,85	0,85
PPS roughness, µm	ISO 8791-4	0,65	0,65	0,65	0,65	0,65	0,65	0,65

Certificates:

ISO 9001
ISO 14001
ISO 50001
OHSAS 18001
FSC® CoC
PEFC™ CoC
EMAS

Tests are conducted at standard atmosphere of 23°C and 50% relative humidity according to DIN 50014. The technical readings with tolerances and their max. and min. values respectively are standard values of our production. The tolerances are considered to be correctly met when 95% of the values ascertained comply with the mentioned data. Beyond that 4,5% of the tested individual values shall not deviate by more than up to 1,5-fold of the tolerance. In the maximum only 0,5% of the individual testings shall exceed the 1,5-fold tolerance range. Adhering to the tolerance is based on DIN 19306-7.3; determination as per DIN 55302, Item 1. All technical data are subject to alteration. As the figures are standard values, they do not form a constituent part of our sales conditions.

Paper Suppliers

Recommended 400gsm paper board substrates:

Heaven 42:

- Manufacturer: Scheufelen
- <http://www.scheufelen.com/en/trading-partners.html>
- Paper merchant: IGEPA

genYOU:

- Manufacturer: Clairefontaine
- <http://www.papmandeure.com/index.php?id=9&L=1>
- Paper merchant: IGEPA

mondi Color Copy:

- Manufacturer: mondi group
- <http://www.mondigroup.com/products/desktopdefault.aspx/tabid-279/>
- Paper merchants: Igepa, Inapa, Antalis, Europapier, Papyrus.

prestige SILK

- Manufacturer: Feldmuehle;
- mill brand: Exceo Silk
- Paper merchant: Inapa / Papier Union

prestige ART

- Manufacturer: Feldmuehle;
- mill brand: Exceo Gloss
- Paper merchant: Inapa / Papier Union



KONICA MINOLTA

Konica Minolta
Business Solutions Europe GmbH
Europaallee 17
30855 Langenhagen 🇩🇪 Germany
Tel.: +49 (0) 511 74 04-0
Fax: +49 (0) 511 74 10 50
www.konicaminolta.eu

bizhub PRESS 
C1100 / C1085