KODAK Coated Matte Print Paper / 90g

Kodak

GENERAL DESCRIPTION

For high-quality, low-cost composites, maps, and charts.

- Very lightweight (4-mil) easy-to-fold bond paper with a matte finish
- Excellent color quality at a low cost
- Fast-drying for high productivity

COMPATIBILITY

When used with the following printers and inks, KODAK Coated Matte Print Paper / 90g is recommended for all applications. Recommendations will provide optimal output when using printing paths commonly associated with each printer. These settings are intended as starting points—other combinations of settings may also provide good results. See "Printing Notes" for more information. "Yes" in the Laminate Recommendation column indicates that this media is likely to have good adhesion with laminates in that class.

   For compatibility information for all KODAK Wide-Format Inkjet Media, refer to the Inkjet Media Compatibility Chart at www.kodak.com/go/wideformat

Manufacturer	Model	Ink Compatibility		Laminate Recommendation (See Finishing Section)			
		Ink	Print Driver Media Setting	Heat Activated Thermal 210-240°F (99-116°C)	Heat Activated Low Temperature 185-195°F (85-91°C)	Heat Assisted 185-195°F (85-91°C)	Pressure Sensitive Ambient to 120°F (49°C)
KODAK PROFESSIONAL	3038/3043/3062	Dye*, Pigment	See Printing Notes	No	No	Yes	Yes
HEWLETT-PACKARD DESIGNJET	800	Dye	**Heavy Coated Paper**	No	No	No	Yes
HEWLETT-PACKARD DESIGNJET	1050C/1055CM	Dye	**Coated Paper**	No	No	Yes	Yes
HEWLETT-PACKARD DESIGNJET	2000/2500/2800/ 3000/3500/3800 CP	Dye*	See Printing Notes	No	No	No	Yes
HEWLETT-PACKARD DESIGNJET	5000 Series	Dye*	See Printing Notes	No	No	No	Yes
HEWLETT-PACKARD DESIGNJET	Z Series	VIVERA Pigments	**Coated Paper**	No	No	Yes	Yes
MUTOH FALCON	RJ-4100, RJ-6100	Dye*, Pigment	See Printing Notes	No	No	Yes	Yes
ROLAND	Hi-Fi Jet FJ-50/ FJ-40, Hi-Fi Jet Pro FJ-400/ FJ-500/FJ-600	Dye*, Pigment	See Printing Notes	No	No	Yes	Yes
EPSON STYLUS PRO	7000/9000	Dye*	**Presentation Matte**	No	No	Yes	Yes
EPSON STYLUS PRO	7500/9500	Pigment	**Double Weight Matte Paper**	No	No	Yes	Yes
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Manufacturer	Model	Ink Compatibility		Laminate Recommendation (See Finishing Section)			
		Ink	Print Driver Media Setting	Heat Activated Thermal 210-240°F (99-116°C)	Heat Activated Low Temperature 185-195°F (85-91°C)	Heat Assisted 185-195°F (85-91°C)	Pressure Sensitive Ambient to 120°F (49°C)
EPSON STYLUS PRO	7600/9600/ 10000/10600	Dye*	**Presentation Matte**	No	No	Yes	Yes
EPSON STYLUS PRO	10000/10600	Archival Pigment	**Double Weight Matte Paper**	No	No	Yes	Yes
EPSON STYLUS PRO	7600/9600/ 10600	ULTRACHROME Pigment	**Double Weight Matte Paper**	No	No	Yes	Yes
EPSON STYLUS PRO	7800/9800 7880/9880/11880	ULTRACHROME K3 Pigment	**Double Weight Matte Paper**	No	No	Yes	Yes
CANON	7250D/7200D/ 8200D/8400D	Dye	**Plain Paper**	No	No	No	Yes
CANON	6200Pg/8200Pg 6400Pg/8400Pg	Pigment	**Plain Paper**	No	No	No	Yes
CANON	iPF9000/ iPF8000/ iPF5000	LUCIA Pigments	**Coated Paper**	No	No	No	Yes

· For optimal durability, laminate soon after printing (within 4 hours).

When used with the following printers and inks, KODAK Coated Matte Print Paper / 90g delivers acceptable performance for low-ink coverage or line drawings:

Manufacturer	Model	Ink Compatibility		Laminate Recommendation (See "Finishing")			
		Ink	Print Driver Media Setting	Heat Activated Thermal 210-240°F (99-116°C)	Heat Activated Low Temperature 185-195°F (85-91°C)	Heat Assisted 185-195°F (85-91°C)	Pressure Sensitive Ambient to 120°F (49°C)
KODAK PROFESSIONAL	2042/2060	Dye, Pigment	See Printing Notes	No	No	Yes	Yes
HEWLETT-PACKARD DESIGNJET	2000/2500/2800/ 3000/3500/3800 CP	UV	**HW Coated** (Economy)	No	No	No	No
HEWLETT-PACKARD DESIGNJET	5000 Series	UV	**HW Coated** (Economy)	No	No	No	Yes
ENCAD NOVAJET	PRO 36/50	GS, GX, GO+	See Printing Notes	No	No	Yes	Yes
ENCAD NOVAJET	PROe	GS, GX*	See Printing Notes	No	No	Yes	Yes
ENCAD NOVAJET	500	GA, GS, GX*	See Printing Notes	No	No	Yes	Yes
ENCAD NOVAJET	600/700 series	GS, GS+, GX*	See Printing Notes	No	No	Yes	Yes
ENCAD NOVAJET	850	GS+, GX*	See Printing Notes	No	No	GS+: No GX: Yes	Yes
ENCAD NOVAJET/ KODAK	1000i/ 1200i	Qi Dye	See Printing Notes; Printer Heater Setting: 2	No	No	Yes	Yes

* For optimal durability, laminate soon after printing (within 4 hours).

PRINTING NOTES

The Print driver media settings recommended in the Compatibility section are intended to provide usable results with available media profiles found in the printer manufacturer's provided drivers and RIPs. These recommendations will provide proper ink laydowns with no pooling or bleeding, and color which will be acceptable for many applications. It is suggested that tests be run using these recommendations and color corrections be made to meet user expectations.

In cases where no recommendation is made, choose the media setting closest to the KODAK Wide-Format Inkjet Media you are using. For example, if you are printing on KODAK Premium Photographic Glossy Paper / 180g, choose a setting in your driver or RIP which is intended for another glossy photo paper. This should give you a print which requires little or no adjustment to get usable results.

RIPs and Profiles for ENCAD and Other Printers

For more exacting color, several third party RIPs (Raster Image Processors) are available with profiles supporting KODAK media for ENCAD, KODAK and other printers. For more information visit KODAK 's website at www.kodak.com/go/wfiprofiles

Following is a list of RIPs for which ENCAD/KODAK printer support and Kodak-built media profiles are available:

ENCAD/KODAK	www.encad.com/Support/RIP-Support/ index.asp
COLORGATE PHOTO RIP	www.colorgate.com/home_e/ products_e.html
ONYX GRAPHICS	www.onyxgfx.com
SCANVEC AMIABLE	www.scanvecamiable.com

In addition to the above list, the following software companies provide RIPs and profiles that support ENCAD/KODAK printers:

BEST GMBH	www.bestcolor.com/bcint/index.htm
AIT INTERNATIONAL	www.applied-image.com/ Shiraz-RIP.htm
IMAGE TECHNOLOGIES	www.imagetechdev.com
GLOBAL GRAPHICS	www.globalgraphics.com
COLORBURST SYSTEMS	www.compatsys.com
WASATCH COMPUTER TECHNOLOGY, INC.	www.wasatchinc.com
CADLINK TECHNOLOGY	www.cadlink.com
JET RIP	www.jangeun.co.kr

Custom Profiles

While the above printing recommendations and available profiles from KODAK will provide adequate results for many wide-format inkjet applications, there are applications, such as inkjet proofing, which demand more exacting color requirements. It is suggested that for these applications, custom profiles be built for given ink/media/printer combinations. Many color management and profile building software applications are available which allow the user to manage color to meet their needs. Also, many RIPs will provide color profiling options which allow the user to control the color of their output. Please contact your dealer or KODAK technical support for help determining the best solution for your application.

HANDLING

All inkjet media must be handled with care before and after printing to prevent damage to the ink receiving layer and printed images. Use the following guidelines, your experience, and common sense for the proper care of your media.

- Store unused media in its original packaging, using the core-plugs and plastic sleeves.
- Allow media to acclimate to your environmental conditions for at least 24 hours before use.
- KODAK inkjet media is rolled printable side out. Avoid touching the printable side by handling by the edges of the roll.
- Wear cotton gloves when handling media to avoid scratches, abrasions and fingerprints from moisture and oils on your hands.
- Do not allow the media to come into contact with moisture. Moisture will damage many types of inkjet medias before and after printing.
- Avoid handling, trimming, laminating or other finishing until prints are completely dry. Dry times will vary based on media type, ink type and environmental conditions.
- Do not fold, bend or crease media or damage may occur to the ink receiving layer.
- Do not allow the surface of the media to come into contact with itself or another inkjet media.
- To prevent yellowing, avid contact with wood-containing paper (i.e., newspaper), brown cardboard, untreated wood, certain printing inks and packaging materials, and rubber products.
- Use media only in recommended operating conditions—see "Physical Characteristics" section.

Curl

Most types of roll-based inkjet media will exhibit some amount of curl, either toward the base side or toward the print side. This will vary based on media type and environmental conditions. Some media will curl more in low humidity environments and others in high humidity environments. Also, media may curl more towards the core or end of the roll due to "roll memory."

   Although curl is mainly an issue when printing, it can also have an impact on laminating and other finishing procedures. Follow these guidelines, and use your experience and common sense to avoid issues caused by curl.

When printing:

- Advance media several inches past the print platen before starting a print job.
- Add weights or clips to the leading edge of the media.
- Attach media to the printer's take-up spool before starting printing.
- Adjust vacuum settings accordingly on printers equipped with variable media vacuum settings.
- Adjust heater and dryer settings on equipped printers to obtain optimum conditions to ensure flat media. See printer owners' manual for their recommendations.

During finishing:

- Reverse wind media, when completely dry, to counteract roll memory.
- Do not allow media to remain rolled for extended periods of time.
- Rough cut prints and lay them flat before laminating.

FINISHING

Detailed information and tips can be found in KODAK publication E-2600, *Laminating, Mounting, and Finishing KODAK Wide-Format Inkjet Media*.

Lamination

Refer to "Laminate Compatibility" in the compatibility section for specific printer/ink/laminate recommendations.

   KODAK testing indicates that heat-activated (low-melt thermal) laminates may not work well with this media. Different laminate finishes (i.e., glossy, lustre, textured) may also affect compatibility. If you choose heat-activated laminates, run tests before creating final prints.

Lamination Definitions

Heat Activated Thermal, 210-240°F (99-116°C) *	Polyester laminates applied with hot roll laminators at 210-240°F.
Heat Activated Low Temperature, 185-195°F (85-91°C) *	Polyester laminates applied with hot roll laminators at 185-195°F.
Heat Assisted, 185-195°F (85-91°C)	Polyester or vinyl laminates with pressure sensitive adhesives; specially formulated for inkjet prints, and applied with hot roll laminators at 185-195°F.
Pressure Sensitive, Ambient to 120°F (49°C)	Polyester or vinyl laminates with pressure sensitive adhesives on a release liner, applied at ambient conditions or at low temperature, 100-120°F.

* For both Heat Activated Thermal and Low Temperature, use a laminate with a total thickness (polyester and adhesive) of 3 mils or less on the face side. Thicker laminates may be applied to the back of the print for increased total thickness.

   It is important that your print be dry before laminating. For best results, use inkjet-specific laminate products and follow the laminate manufacturer's instructions as a starting point. Since lamination performance varies as a function of materials, technique, and environmental conditions, it is important to run tests to determine the best methods for your setup. Cleanliness of prints and work area is critical to avoid defects in lamination.

   For increased durability, choose a laminate with UV protection and encapsulate with a 1/4-1/2" (6.5-13 mm) seal around the print edges to prevent moisture and other airborne pollutants from reaching the image. Heavier-weight papers may require a wider edge seal.

Mounting

Prints can be mounted (laminated or not) to a variety of materials, including poster board, foam board, SINTRA, LEXAN, and more. Use inkjet-specific adhesive materials and follow the manufacturer's instructions.

DISPLAY

KODAK inkjet media is intended for display in typical home, office, and retail environments. Unusual conditions, such as extreme temperatures or humidity, may affect the expected lifetime of the displayed print. KODAK is unable to test all possible environments, so it is recommended to test display conditions when possible to be sure that the media meets the necessary requirements.

PERFORMANCE GUARANTEE

Indoor Performance Guarantee

KODAK will guarantee prints from compatible systems against noticeable fading, cracking, yellowing, and bleeding when the print is viewed from its intended viewing distance.

The Indoor Performance Guarantee durations will vary based on the media/printer/ink system. The stated durations assume the media is displayed indoors under fluorescent light (average intensity 450-lux, 12 hours/day), and/or with indirect sunlight exposure (at least 6 feet from a window, with no direct sunlight). The guarantee covers both laminated or unlaminated prints as noted in the table below. The unlaminated guarantee assumes the media will be displayed in a typical office environment and will not be exposed to a high level of pollutants (above a typical ozone level for an office environment).

Terms, conditions and additional information about the Performance Guarantee can be found at www.kodak.com/go/wideformat.

Manufacturer	Model	Ink	Durability
KODAK PROFESSIONAL	3043/3062	6 Color Dye	3 months laminated
		6 Color Pigment	1 year
HEWLETT-PACKARD DESIGNJET	5000 Series	6 Color Dye	3 months laminated
	2xxx/3xxx	4 Color Dye	3 months laminated
	Z Series	VIVERA Pigments	1 year
ENCAD NOVAJET / KODAK	1000i/1200i	Qi Dye	1 month unlaminated 3 years laminated
EPSON STYLUS PRO	7600/9600/10000/10600	6 Color Photographic Dye	3 months laminated
	10000/10600	6 Color Archival Pigment	1 year
	9000	6 Color Dye	3 months laminated
	9500	6 Color Pigment	1 year
	7600/9600/10600	7 Color ULTRACHROME Pigment	1 year
	7800/9800 7880/9880/11880	8 Color ULTRACHROME K3 Pigment	1 year
CANON	7250D/7200D/8200D/8400D	6 Color Dye	3 months laminated
	6200Pg/8200Pg	6 Color Pigment	1 year
	6400Pg/8400Pg	6 Color Pigment	1 year
	iPF5000/iPF8000/iPF9000	12 Color LUCIA Pigments	1 year

Additional Durability Information

The following table can be used as a guide for printers and inks not included in the Performance Guarantee.

Durability Guidelines for Printers Not Included in Performance Guarantee

If Using	Expect Durability Similar To:
ROLAND dye	EPSON 9000 Dye
ROLAND pigment	EPSON 9500 Pigment
MUTOH dye	EPSON 9000 Dye
MUTOH pigment	EPSON 9500 Pigment

ORDERING INFORMATION

KODAK Coated Matte Print Paper / 90g

Roll Length	Roll Width / Order No.				
	24 in. (61 cm)	36 in. (91.4 cm)	42 in. (106.7 cm)	50 in. (127 cm)	60 in. (152.4 cm)
100 ft (30.5 m)	875 9268	105 1028	898 0096	851 8615	NA
16.4 ft (5 m) (sample)	NA	125 1057	NA	NA	NA

NA = Not available

PHYSICAL CHARACTERISTICS

Physical Characteristics	Value	Test Method Reference
Caliper	4 mil (102µm)	ISO 534
Opacity	>90	Tappi T 524
CIE Whiteness	134	Tappi T 524
Weight	90 g/sm	ISO 536
Brightness	>100	Tappi T 524
60-degree Gloss	<7	ISO 7668
L*(D65/10 uvi/BBW)	>94	Tappi T 524
Operating Conditions	59-86°F (15-30°C), 20-70% RH (non-condensing)	
Recommended Storage Conditions	68°F (20°C), 50% RH	

If you have questions or need assistance, visit KODAK's website at www.kodak.com/go/wfisupport or, in the U.S., contact KODAK Technical Support at 1-888-436-2347.
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