

Using KODAK Wide-Format Inkjet Media in your Hewlett-Packard Printer

GENERAL DESCRIPTION

KODAK Wide-Format Inkjet Media is optimally suited for exceptional performance in your Hewlett-Packard DesignJet printer. With a complete line of products, from photo quality papers to outdoor banners, extensively tested for each printer/ink combination, you'll find a perfect fit for every application.

Be sure to check the each individual media's data sheet for detailed performance information.

COMPATIBILITY

Use the following table to select the right media for your job. We've tested each media/ink combination for the following Hewlett Packard printers:

- DesignJet 5000
- DesignJet 5500
- DesignJet 3xxx series
- DesignJet 2xxx series
- DesignJet 1xxx series
- DesignJet 800

KODAK Wide-Format Inkjet Media		DesignJet 800/1000 Series	DesignJet 2000/3000/5000 Series	
		Dye	Dye	UV
Photo Papers	Rapid-Dry Photographic Glossy and Satin Papers / 200 g: Produces high quality photographic prints, with instant dry for high production. Works well on HP5500 using <i>Production Mode</i> .	□	□	●
	Premium Photographic Glossy Paper / 270 g and 180 g: Produces glossy prints with bold, dynamic colors on a heavyweight base for high-quality photographic output with industry-leading light stability for indoor display. Ideal for photo reproduction.	●	●	◆
	Premium Photographic Satin Paper / 180 g: The same high quality paper with an elegant satin surface that gives a professional portrait appearance.	●	●	◆
	Premium Photographic Matte Paper / 180 g: The same high quality paper with a matte surface for nearly reflection-free viewing at any angle.	●	●	◆
	Economy Photographic Glossy and Satin Papers / 160 g: For low-cost, photo-realistic posters, murals, point-of-purchase displays, signs and charts.	●	●	◆
Coated Papers	Coated Matte Print Paper / 140 g (6 mil): For excellent color in high-quality, low-cost composites, proofs, signs and posters.	●	□	■
	Coated Matte Print Paper / 90 g (4 mil): For high-quality, low-cost composites, proofs, maps and charts. Easy-to-fold bond paper with matte finish.	●	□	■
	Self-Adhesive Coated Matte Print Paper / 100 g (7 mil): For self-adhesive prints with a no-glare matte surface. For posters, signs and packaging prototypes.	●	□	■
Films	Premium White Film (5 mil): Provides an exceptionally durable polyester film base and high gloss for front-lit displays with the same high-quality image characteristics as our Premium Papers.	●	●	◆
	Premium Backlit Film (7 mil): Translucent Polyester Film providing high image quality and robust handling properties. Ideal for durable, scratch-resistant backlit displays in high-traffic locations.	●	●	◆
	Reverse Print Backlit Film (5 mil): Translucent, polyester, view-through base provides excellent durability. Superior image quality for eye-catching graphics.	●	●	◆
	Kodak Reverse Print Backlit VS (5 mil): Translucent, polyester, view-through base provides excellent durability. Excellent color saturation and high density for photographic quality backlit displays.	●	●	◆
	Reverse Print Backlit Film (6 mil): Translucent, 6 mil polyester view-through base for excellent durability and quick drying. Reverse print provides built-in image protection.	●	●	●
	Kodak Water-Resistant Backlit Film (8 mil): Outdoor backlit film designed to deliver great color and longevity for the most demanding backlit projects. Faster drying time than comparable pigment-compatible backlit films.	●	●	●
	GO Water-Resistant Backlit Film (9 mil): Outdoor backlit film designed to deliver great color and longevity for the most demanding backlit projects. With an outdoor performance guarantee of one year.	●	●	●
	Kodak Poly Poster Gloss (7 mil): Ideal for low-cost, photorealistic graphics, including murals, point of purchase displays, signs, and charts. Flexible, tear-resistant polypropylene 7 mil film base. Durable coating provides excellent finishing characteristics for indoor banners.	●	●	◆
	Kodak Poly Poster Satin (7 mil): Ideal for low-cost, photorealistic graphics, including murals, point-of-purchase displays, signs, banners and charts. Flexible, tear-resistant polypropylene 7 mil film base. Durable coating provides excellent finishing characteristics for indoor banners.	●	●	◆
	Polypropylene Gloss Film (7 mil): Ideal for low-cost, photorealistic graphics, including murals, point-of-purchase displays, signs, banners and charts. Flexible, tear-resistant polypropylene 7 mil film base.	●	●	●
GO Water-Resistant White Matte Film (6 mil): A matte, 6 mil opaque polyester film. The exceptional compatibility makes this media suitable for long-term indoor/outdoor front-lit or backlit applications.	●	□	●	

KODAK Wide-Format Inkjet Media		DesignJet 800/1000 Series	DesignJet 2000/3000/5000 Series	
		Dye	Dye	UV
Vinyls	Self-Adhesive Matte Vinyl: Economical vinyl features a matte finish for reflection-free viewing at any angle. Optimized for indoor dye-based applications.	●	●	●
	GO Self-Adhesive Multi-Purpose Vinyl: An adhesive-backed vinyl for durable, cost-effective, outdoor banners with short- to medium-term applications.	●	□	●
	GO Water-Resistant Self-Adhesive Matte Vinyl: Durable vinyl material with an adhesive backing for easy mounting on almost any smooth surface. It has a matte surface to eliminate reflections, and is ideal for outdoor advertising and signs.	●	□	●
	GO Water-Resistant Scrim Vinyl: High-performance material for indoor and outdoor signage, pennants, banners, and tradeshow displays with excellent image quality and durability. This reinforced vinyl with polyester scrim center provides 100% opacity and is ideal for sewing and using grommets.	●	□	●
Canvas	Artists' Semigloss Canvas (20 mil): A durable material with a semi-gloss surface that is ideal for fine art reproductions and photo enlargements.	●	●	●
	Matte Canvas (19 mil): A banner material with a textured matte surface that's ideal for artistic posters and backdrops. Optimized for indoor/outdoor pigment based applications.	●	□	●
Indoor/Outdoor	Kodak Water-Resistant Poly Poster (8 mil): A matte finish polypropylene film for durable, rich-color displays in high-traffic location. Water resistant properties are excellent for unlaminated outdoor banners and signs with pigmented based inks.	●	□	●
	Kodak Water-Resistant Self-Adhesive Poly Poster (9 mil): A matte finish polypropylene film for durable, rich-color displays in high-traffic location. Permanent self-adhesive backing is easily mountable on most smooth surfaces. Water resistant properties are excellent for unlaminated outdoor signs with pigmented based inks.	●	□	●
	KODAK Water-Resistant Reinforced Flex Banner (15 mil): A matte finish, tear-resistant, vinyl banner material. Water-resistant coating and durable polyester scrim layer make it an excellent choice for outside banners.	●	□	●
	Banner / DuPont Tyvek Material (9 mil): A 9 mil matte-finished, ultra-durable Tyvek banner material that delivers photo-realistic image quality and tear resistance under wind and tough weather conditions. Constructed with stain-resistant, synthetic base material by DuPont for extreme durability.	●	□	●
	GO Polyethylene Banner (10 mil): Matte finish banner material that results in images that are near-photo realistic with bold, vivid detail.	●	□	●
	GO Wet Strength Paper (11 mil): An 11 mil matte-finished, reinforced, water-resistant paper designed for one month outdoor posting and 12-month indoor banners. Polymer-reinforced paper provides tear-resistance.	●	□	●

- Recommended for all applications
- Recommended for low ink coverage and line drawings
- Recommended for all applications when laminated/overcoated
- ◆ Not Recommended

RIPs and ICC Profiles

Several third party RIPs (Raster Image Processors) are available with profiles supporting Kodak media for HP printers. For more information visit Encad's website at <http://www.encad.com/Support/RIP-Support/index.asp>.

Below is a list of software companies that provide RIPs for the Encad product line. To obtain profiles that are not available for download directly from Encad, as well as complete product descriptions and support, please visit the RIP company's website.

Encad	www.encad.com/Support/RIP-Support/index.asp
Colorgate Photo RIP	www.colorgate.com/home_e/products_e.html
Best GmbH	www.bestcolor.com/bcint/index.htm
Scanvec Amiable	www.scanvecamiable.com
Onyx Graphics	www.onyxgfx.com
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

Hewlett-Packard DesignJet printers allow the user to select a media profile on the control panel of the printer. While these profiles were created for HP media, Kodak media will provide excellent results using many of the same profiles. Use the chart below to select the best media setting on your HP printer when using Kodak media. If the exact media profile listed below is not available as a selection from your printer's control panel, check HP's website for the latest availability or pick a media of similar type.

Note: Profiles and their availability may change without notice. Encad is not responsible for any difficulties encountered when locating or using these profiles.

KODAK Wide-Format Inkjet Media		Control Panel Media Setting		
		DesignJet 800/1000 Series	DesignJet 2000/3000/5000 Series	
		Dye	Dye	UV
Photo Papers	Rapid-Dry Photographic Glossy and Satin Papers / 200 g	High Gloss Photo	Photo Imaging Gloss*	Productivity Photo Gloss*
	Premium Photographic Glossy Paper / 270 g and 180 g	High Gloss Photo*	Photo Imaging Gloss*	N/C
	Premium Photographic Satin Paper / 180 g	High Gloss Photo*	Photo Imaging Gloss*	N/C
	Premium Photographic Matte Paper / 180 g	High Gloss Photo*	Photo Imaging Gloss*	N/C
	Economy Photographic Glossy and Satin Papers / 160 g	High Gloss Photo	Photo Imaging Gloss*	N/C
Coated Papers	Coated Matte Print Paper / 140 g (6 mil)	Heavy Coated Paper*	HW Coated Paper*	HW Coated Paper
	Coated Matte Print Paper / 90 g (4 mil)	Heavy Coated Paper*	HW Coated Paper (*2000/3000 only)	HW Coated Paper
	Self-Adhesive Coated Matte Print Paper / 100 g (7 mil)	Heavy Coated Paper*	HW Coated Paper (*2000/3000 only)	HW Coated Paper
Films	Premium White Film (5 mil)	High Gloss Photo*	Photo Imaging Gloss*	N/C
	Premium Backlit Film (7 mil)	High Gloss Photo*	Photo Imaging Satin*	N/C
	Reverse Print Backlit Film (5 mil)	Heavy Coated Paper*	Backlit Film Reverse Print Matte*	N/C
	Reverse Print Backlit Film VS (5 mil)	Heavy Coated Paper	Backlit Film Reverse Print Matte*	N/C
	Reverse Print Backlit Film (6 mil)	Heavy Coated Paper	Backlit Film Reverse Print Matte*	N/T
	Water-Resistant Backlit Film (8 mil)	Heavy Coated Paper	HW Coated Paper*	Colorlucent Backlit*
	GO Water-Resistant Backlit Film (9 mil)	Heavy Coated Paper	N/T	Colorlucent Backlit*
	Poly Poster Gloss (7 mil)	High Gloss Photo	Photo Imaging Gloss*	N/C
	Poly Poster Satin (7 mil)	High Gloss Photo	Photo Imaging Gloss*	N/C
	Polypropylene Gloss Film (7 mil)	High Gloss Photo	Photo Imaging Gloss	N/T*
	GO Water-Resistant White Matte Film (6 mil)	Heavy Coated Paper*	N/T (*2000/3000 only)	Polyester Film White Matte*
Vinyls	Self-Adhesive Matte Vinyl	Heavy Coated Paper*	N/T (*2000/3000 only)	Colorfast Vinyl*
	GO Self-Adhesive Multi-Purpose Vinyl	Heavy Coated Paper	N/T	Colorfast Vinyl*
	GO Water-Resistant Self-Adhesive Matte Vinyl	Heavy Coated Paper*	N/T*	Colorfast Vinyl*
	GO Water-Resistant Scrim Vinyl	Heavy Coated Paper	N/T*	Scrim Banner*
Canvas	Artists' Semigloss Canvas (20 mil)	Heavy Coated Paper*	N/T*	Canvas (*5000 series only)
	Matte Canvas (19 mil)	Heavy Coated Paper	N/T (*2000/3000 only)	Canvas Matte*
Indoor/Outdoor	Water-Resistant Poly Poster (8 mil)	Heavy Coated Paper	HW Coated Paper*	HW Coated Paper*
	Water-Resistant Self-Adhesive Poly Poster (9 mil)	Heavy Coated Paper	HW Coated Paper*	HW Coated Paper*
	Water-Resistant Reinforced Flex Banner (15 mil)	Heavy Coated Paper	HW Coated Paper*	Colorfast Vinyl*
	Banner / DuPont Tyvek Material (9 mil)	Heavy Coated Paper	N/T	Banner Tyvek UV (*5000 series only)
	GO Polyethylene Banner (10 mil)	Heavy Coated Paper	N/T	Colorfast Vinyl (*5000 series only)
	GO Wet Strength Paper (11 mil)	Heavy Coated Paper	N/T	HW Coated Paper (*5000 series only)

* Profile available from Encad (www.encad.com) for one or more third party software RIPs.

N/T = Not tested

N/C = Not compatible

N/A = Not applicable

Performance Guarantee

KODAK Wide-Format Inkjet Media is now covered by Indoor and Outdoor Performance Guarantees to give you the confidence that every job will meet your customers' expectations of print life and longevity. Be sure to check the performance guarantee at www.encad.com for your media/ink combination.

Lamination

KODAK Wide-Format Inkjet Media is tested for a large variety of laminates with printer and ink combination. From pressure-sensitive to heat-activated and everything in between, our media will allow you to laminate with most existing set-ups.

Several Kodak media products have the added feature of being compatible with thermal-heat activated lamination films for the lowest cost solution. These include:

- KODAK Premium Photographic Papers
- KODAK Water-Resistant Poly Poster (8 mil)
- KODAK Water-Resistant Self-Adhesive Poly Poster (9 mil)

See individual technical information document for details.

The chart below can be used to ensure your laminate type is compatible with the media you choose:

KODAK Wide-Format Inkjet Media		Low Temperature Heat Activated		Heat Assisted		Pressure Sensitive (Cold)	
		Dye	UV	Dye	UV	Dye	UV
Photo Papers	Rapid-Dry Photographic Glossy and Satin Papers / 200 g	●	●	●	●	●	●
	Premium Photographic Glossy Paper / 270 g and 180 g	●	■	●	■	●	■
	Premium Photographic Satin Paper / 180 g	●	■	●	■	●	■
	Premium Photographic Matte Paper / 180 g	●	■	●	■	●	■
	Economy Photographic Glossy and Satin Papers / 160 g	●	■	●	■	●	■
Coated Papers	Coated Matte Print Paper / 140 g (6 mil)	◆	■	●	■	●	■
	Coated Matte Print Paper / 90 g (4 mil)	◆	■	◆	■	●	■
	Self-Adhesive Coated Matte Print Paper / 100 g (7 mil)	●	■	●	■	●	■
Films	Premium White Film (5 mil)	●	■	□	■	●	■
	Premium Backlit Film (7 mil)	●	■	●	■	●	■
	Reverse Print Backlit Film (5 mil)	◆	■	●	■	●	■
	Reverse Print Backlit Film VS (5 mil)	◆	■	●	■	●	■
	Reverse Print Backlit Film (6 mil)	◆	◆	●	●	●	●
	Water-Resistant Backlit Film (8 mil)	◆	◆	◆	◆	●	●
	GO Water-Resistant Backlit Film (9 mil)	◆	◆	◆	◆	●	●
	Poly Poster Gloss (7 mil)	◆	■	◆	■	●	■
	Poly Poster Satin (7 mil)	◆	■	◆	■	●	■
	Polypropylene Gloss Film (7 mil)	◆	◆	◆	◆	●	■
	GO Water-Resistant White Matte Film (6 mil)	●	●	●	●	●	●
Vinyls	Self-Adhesive Matte Vinyl	●	●	●	●	●	●
	GO Self-Adhesive Multi-Purpose Vinyl	◆	◆	◆	◆	●	●
	GO Water-Resistant Self-Adhesive Matte Vinyl	●	●	●	●	●	●
	GO Water-Resistant Scrim Vinyl	◆	◆	◆	◆	●	●
Canvas	Artists' Semigloss Canvas (20 mil)	■	■	■	■	■	■
	Matte Canvas (19 mil)	◆	◆	◆	◆	●	●

KODAK Wide-Format Inkjet Media		Low Temperature Heat Activated		Heat Assisted		Pressure Sensitive (Cold)	
		Dye	UV	Dye	UV	Dye	UV
Indoor/ Outdoor	Water-Resistant Poly Poster (8 mil)	●	●	●	●	●	●
	Water-Resistant Self-Adhesive Poly Poster (9 mil)	●	●	●	●	●	●
	Water-Resistant Reinforced Flex Banner (15 mil)	◆	◆	◆	◆	●	●
	Banner / DuPont Tyvek Material (9 mil)	◆	◆	◆	◆	●	●
	GO Polyethylene Banner (10 mil)	◆	◆	◆	◆	●	●
	GO Wet Strength Paper (11 mil)	◆	◆	◆	◆	●	●

- Compatible
- ◆ Not Compatible
- Not Applicable
- Not Tested

Special Printer Notes

Remember that image quality is largely a function of proper printer maintenance, balanced with speed of printing. Following the instructions for head registration and calibration will allow you to properly determine the best combination of speed and quality for your application. As a rule, slower print speeds and higher passes mean higher quality prints. Different media types may also have acceptable quality at higher print speeds. Adequate testing of each media type will ensure the best possible results.

KODAK Premium Papers provide excellent photographic quality and broad laminate compatibility when used on HP printers. Choose them for all of your demanding print jobs.

KODAK Economy Photographic Papers are an economical choice for most paper applications, providing good color and image quality.

KODAK Coated Papers may tend to cockle with heavier ink laydowns. These media are intended for low-ink coverage graphics and line drawings only, so avoid images and high densities when using them. KODAK Self-Adhesive Coated Matte Print Paper has a lower tendency to cockle due to its release liner, so you may want to use it when you can't avoid higher ink levels.

KODAK Backlit Films will provide the quality needed in demanding backlit applications when printed at slower speeds and higher passes due to the way they are viewed. Image quality defects inherent with production speed printing are exaggerated when backlit, so as a rule, higher quality print modes are advisable.

KODAK GO Water Resistant Backlit Film / 9 mil will provide excellent image quality and durability with HP UV inks, however, dry-time will be longer than that of most media types. Be sure to factor this dry time in to your production when using this media.

KODAK Water Resistant Backlit Film / 8 mil will provide excellent quality with HP UV inks, providing faster dry times with a slightly thinner base.

Take-up spools on HP Designjet printers may not work properly with backlit films due to their low opacity. To allow the take-up spool sensors to sense the media, tape a

piece of the same backlit film you are printing on over the front and back sensors. This will provide enough opacity for the sensors to detect the film and allow the take-up spool to activate. Be sure to remove these extra pieces when using other types of media.

KODAK Frontlit and Backlit Films: In low humidity environments many types of film based media will show static marks when printed on HP Designjet printers. These marks, which appear as low density ink blotches aligned with the bottom rubber rollers, are noticeable in areas which are intended to be white and are next to high density areas, such as large black text. The marks are not present within image areas. To help reduce or eliminate these static marks, try one or all of the following suggestions:

- Operate the printer in a higher humidity environment or place a humidifier near the printer. The static marks will virtually disappear as the humidity is higher, at about 45% RH or higher.
- Print at slower speeds. This will cause less static buildup and make the marks less noticeable.
- Add a 1% or higher fill color for CMYK in white areas; the exact amount to be determined by testing in your working environment. It has been demonstrated in a 30% RH environment that filling white areas with a 1% dot for all 4 channels, C, M, Y, and K, will virtually remove the marks. The resulting light gray in white areas is not objectionable, especially when prints are trimmed so that no unprinted media is visible as a reference. The fill color can be added in the application that the file was created in or within your RIP software. In ONYX Postershop, simply use the "Replace Color" tool, select white, and add 1% to all 4 colors.



Caution

Caution: When using film based medias on printers in very low humidity conditions, 30% or lower, static charges may be enough to damage your printer. It is not recommended that you print in these conditions. Be sure to follow your printer manufacturers guidelines for operating conditions, which are especially critical when using film based medias.

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KODAK Vinyls and Indoor/Outdoor Medias are often used for short-term banners and signs where expectations of image quality, in terms of resolution and image structure, can be lowered in favor of quick turnaround and bold colors. Faster print speeds, lower passes, and 300 dpi printing can all be appropriate for these applications. Color saturation can be maximized by not using an ICC profile, and only using the proper ink limits and linearization/calibration. This could reduce potential color gamut to get a particular color rendition. Several of the RIPs listed above allow you to turn off ICC profile for entire jobs, or just for vector (graphics and linework) colors, providing maximum color saturation. This is especially useful when using pigmented based inks to ensure that text and graphics have the desired saturation.

KODAK Fine Art Medias will produce excellent quality at faster speeds as compared to the smooth glossy surface of KODAK Premium Photographic Glossy Papers because of the nature of their surfaces. This is perhaps contradictory to expectations of fine art applications, which seem to require optimum image quality, but will prove to be true for most images and will save you production time.

Be sure to follow the instructions provided with your printer for proper media loading and maintenance of your printer. Following these guidelines will allow you to have trouble-free printing throughout all of your print production.

Don't Forget:

Kodak media is compatible with most piezo and thermal inkjet printers, giving you a universal solution regardless of what wide-format inkjet printer you have. Please contact Encad (www.encad.com) for more information regarding the performance of Kodak media on Encad and Epson printers.

If you have questions or need assistance, visit Encad's website at www.encad.com or, in the U.S., contact Encad Technical Support at 1-877-362-2387.

The contents of this publication are subject to change without notice.

