

KODAK Water-Resistant Removable Vinyl

GENERAL DESCRIPTION

For durable, cost-effective indoor and outdoor signs, exhibition panels, and posters.

- 6.0 mil vinyl with a removable, repositionable, pressure-sensitive adhesive
- Easily mountable and removable on most smooth surfaces
- Matte surface for nearly reflection-free viewing at any angle
- Waterfast with pigment inks

COMPATIBILITY

When used with the following printers and inks, KODAK Water-Resistant Removable Vinyl 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.encad.com.

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	3000 Series	Dye*, Pigment	See Printing Notes	No	Yes	Yes	Yes
KODAK PROFESSIONAL	4000 Series	Pigment	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	800	Dye	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	1050/1055CM	Dye	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	2000/2500/ 2800/3000/ 3500/3800 CP	Dye*	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	5000/5500	Dye*	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	2000/2500/ 2800/3000/ 3500/3800 CP	UV Pigment	See Printing Notes	No	Yes	Yes	Yes
HEWLETT-PACKARD DesignJet	5000/5500	UV Pigment	HW Coated Paper	No	Yes	Yes	Yes
ENCAD NovaJet	ProE/500/600/ 700 Series	GS, GS+, GX*, GO	See Printing Notes	No	No	No	Yes
ENCAD NovaJet	800 Series	GX+	See Printing Notes	No	No	No	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)
ENCAD NovaJet	1000i	Qi Dye	See Printing Notes; Printer Heater Setting: 2	No	Yes	Yes	Yes
ENCAD NovaJet	1000i	Qi Pigment	See Printing Notes; Printer Heater Setting: 2	No	Yes	Yes	Yes
COLORSPAN DisplayMaker	Hi-Res 8, Esprit/Series XII	EC*, PC	See Printing Notes	No	No	Yes	Yes
MUTOH Falcon	RJ-4100/ RJ-6100	Dye*, Pigment	See Printing Notes	No	No	Yes	Yes
ROLAND Hi-Fi Jet	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 Series	Dye*	Double Weight Matte Paper	No	Yes	Yes	Yes
EPSON Stylus Pro	7600/9600/ 10000/10600	Photographic Dye*	Double Weight Matte Paper	No	Yes	Yes	Yes
EPSON Stylus Pro	7500/9500	Pigment	Double Weight Matte Paper	No	No	Yes	Yes
EPSON Stylus Pro	7600/9600/ 10600	Ultra Chrome Pigment	Double Weight Matte Paper	No	No	Yes	Yes
EPSON Stylus Pro	10000/10600	Archival Pigment	Double Weight Matte Paper	No	No	Yes	Yes

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

Note: KODAK Water-Resistant Removable Vinyl is not recommended for use with "lightfast" dye inks unlaminated due to premature fading (which is caused by oxidation). If prints are laminated within 4 hours of printing to seal the image from exposure to air, the print lifetime can be extended—depending on the type of overlaminates. "Lightfast" inks include: Encad GX and Kodak Lightfast Plus inks.

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 New 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 Encad's website at <http://www.encad.com/Support/RIP-Support/index.asp>

Following 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
JET RIP	www.jangeun.co.kr

Custom Profiles

While the above printing recommendations and available profiles from Encad 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 Encad technical support for help determining the best solution for your application.

HANDLING

Self-adhesive inkjet media must be handled with extreme care before and after printing, since it will tend to lift and separate from the release liner, causing problems with printing and mounting. To keep this from happening:

- 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.
- 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.

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.

This product is designed for a one-step mounting solution. It should only be used for applications where you intend to mount or adhere the print to a substrate. It is important that your print be dry before laminating. For best results, use inkjet-specific laminate products and follow laminate manufacturer's instructions. Lamination performance varies as a function of materials, technique, and environmental conditions. For increased durability, choose a laminate with UV protection.

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. This product has a removable adhesive and is geared towards applications where you intend to remove the print from substrate after use. In order to ensure that longer-term applications remain mounted we recommend you wrap image around substrate and/or frame the print to ensure edges remain intact for length of the application.

Removal

The adhesive on this product is considered removable and should be easy to remove for at least 6 months. However, the longer the media is adhered to another surface, generally the harder removal will be. The ability to reposition the print will depend on the nature of the surface it is initially mounted on. If a residue remains after the vinyl is removed, use soapy water and aggressive rubbing. Where high adhesion occurred (e.g., stainless steel), you may need to use isopropyl or rubbing alcohol.

PERFORMANCE GUARANTEE

Indoor Applications (Fluorescent Display)

Encad 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.encad.com.

Manufacturer	Model	Ink	Durability
KODAK PROFESSIONAL	3043/3062	6 Color Dye	1 year laminated
		6 Color Pigment	1 year
HEWLETT-PACKARD DesignJet	5000 Series	6 Color Dye	1 year laminated
		6 Color UV	1 year
	2000/3000 Series	4 Color Dye	1 year laminated
		4 Color UV	1 year
ENCAD NovaJet	800/700/600/500 Series	4/8 Color GS+	1 month unlaminated 1 year laminated
		4/8 Color GX	1 year laminated
		4/6/8 Color GO+	1 year
	1000i	Qi Dye	1 month unlaminated 1 year laminated
		6 Color Qi Pigment	1 year
EPSON Stylus Pro	7600/9600/10000/10600	6 Color Photographic Dye	1 year laminated
	7500/9500	6 Color Pigment	1 year
	10000/10600	6 Color Archival Pigment	1 year
	7000/9000	6 Color Dye	1 year laminated
	7600/9600/10600	7 Color Ultra Chrome Pigment	1 year

Outdoor Applications

Outdoor exposure, including exposure to ultraviolet radiation, moisture, oxidation, and chemical pollutants all influence the final outdoor longevity of a graphic image. Encad guarantees that the effects of those exposures will not affect the quality and suitability of the graphic image print, based on accepted industry test standards, for advertising purposes and other customary outdoor display uses. Specifically, Encad guarantees prints from the systems below against excessive fading, peeling, cracking, yellowing, bleeding, and running for the periods stated below.

Terms, conditions and additional information about the Performance Guarantee can be found at www.encad.com.

Manufacturer	Model	Ink	Durability
KODAK PROFESSIONAL	3043/3062	6 Color Pigment	6 months unlaminated 9 months laminated
HEWLETT-PACKARD DesignJet	2000/3000/5000 Series	4/6 Color UV	6 months unlaminated 18 months laminated
ENCAD NovaJet	800/700/600/500 series	4/6/8 Color GO+	6 months unlaminated 1 year laminated
	1000i	4 Color Qi Pigment	7 months
		6 Color Qi Pigment	6 months
EPSON Stylus Pro	7500/9500	6 Color Pigment	6 months unlaminated 9 months laminated
	10000/10600	6 Color Archival Pigment	6 months unlaminated 9 months laminated
	7600/9600/10600	7 Color Ultra Chrome Pigment	1 month unlaminated 3 months laminated

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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:
Kodak Pigment	Encad GO+
Colorspan EC	Encad GX
Colorspan PC	Encad GO+
Roland Dye	Epson 9000 Dye
Roland Pigment	Epson 9500 Pigment
Mutoh Dye	Epson 9000 Dye
Mutoh Pigment	Epson 9500 Pigment

ORDERING INFORMATION

KODAK Water-Resistant Removable Vinyl

Roll Length	Roll Width / Order No.			
	36 in. (91.4 cm)	42 in. (106.7 cm)	50 in. (127 cm)	60 in. (152.4 cm)
60 ft (18.3 m)	221621-00	221622-00	221623-00	221624-00
16.4 ft (5 m) (sample)	221625-00	NA	NA	NA

NA = Not available

PHYSICAL CHARACTERISTICS

Physical Characteristics	Value	Test Method Reference
Caliper	13 mil (330 μ m) including backing/adhesive; 6 mil (152 μ m) without	ISO 534
Brightness	92	Tappi T 524
Opacity (with liner)	>95	Tappi T 524
CIE Whiteness	103	Tappi T 524
Weight (with liner, without liner)	320 g/sm, 180 g/sm	ISO 536
60-degree Gloss	</=5	ISO 7668
L*(D65/10 uvi/BBW)	>95	Tappi T 524
Adhesive Peel Strength against stainless steel	2 - 7 N/in	ASTM D1000-93
Flame Spread Classification	Class B	ASTM E84
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 Encad's website at www.encad.com, or in the U.S. contact Encad Technical Support at 1-877-362-2387.

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