KODAK Universal Backlit Film / 8mil



GENERAL DESCRIPTION

This heavy weight front print backlit provides excellent pigment and dye image quality, high-speed drying and universal compatibility at a competitive price. With a heavyweight durable polyester DURATRANS© display material like support, this film offers excellent print handling and finishing characteristics, exceptional color saturation with a quick dry time.

- Pigment compatibility for long life indoor and outdoor Performance Guaranteed backlit displays.
- Robust coating resists flaking when cut.
- The quick drying receiver layer aids in production speed dye printing.
- Excellent dry time enables high speed printing to take up reel in difficult production environments.
- Robust receiver layer resists scratching and provides excellent print handling and finishing characteristics.
- Universal compatibility allows the use of one single backlit media on all leading wide format printers and inks such as ENCAD, HP and EPSON.

COMPATIBILITY

When used with the following printers and inks, KODAK Universal Backlit Film / 8mil 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.

| | Model | Ink Compatibility | | Laminate Recommendation (See Finishing Section) | | | |
|----------------------------------|---|-------------------|-------------------------------|--|---|--|--|
| Manufacturer | | 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 | 4000 Series | Dye∗, Pigment | See Printing Notes | Yes | No | Yes | Yes |
| HEWLETT- PACKARD DESIGNJET | 2000, 2500, 2800, 3000, 3500, 3800 CP | Dye∗ | Coated Paper | Yes | Yes | Yes | Yes |
| HEWLETT- PACKARD DESIGNJET | 2000, 2500, 2800, 3000, 3500, 3800 CP | UV | Coated Paper | Yes | Yes | Yes | Yes |
| HEWLETT- PACKARD DESIGNJET | 5000 Series | Dye∗ | HW Coated Paper | Yes | Yes | Yes | Yes |
| HEWLETT- PACKARD DESIGNJET | 5000 Series | UV | Colorlucent Backlit | Yes | Yes | Yes | Yes |
| ENCAD NOVAJET | ProE/500/600 / 700/800 Series | GS, GS+ | See Printing Notes | Yes | Yes | Yes | Yes |
| ENCAD NOVAJET | ProE/500/600 / 700/800 Series | GX∗ | See Printing Notes | Yes | No | Yes | Yes |

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| | | Ink Compatibility | | Laminate Recommendation (See Finishing Section) | | | |
|----------------------------|--|--------------------------------|--|--|--|--|--|
| Manufacturer | Model | 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 | ProE/500/600 / 700/800 Series | GO+ | See Printing Notes | Yes | No | Yes | Yes |
| ENCAD NOVAJET/ KODAK | 1000i/ 1200i | Qi Dye | See Printing Notes; Printer Heater Setting: 2 | Yes | Yes | Yes | Yes |
| ENCAD NOVAJET/ KODAK | 1000i/ 1200i | Qi Pigment | See Printing Notes; Printer Heater Setting: 2 | Yes | Yes | Yes | Yes |
| CANON | 7250D/7200D 8200D/8400 D | Dye | Backprint Film | Yes | Yes | Yes | Yes |
| CANON | 6200Pg/ 8200Pg/ 6400Pg/ 8400Pg | Pigment | Backlit Film | Yes | Yes | Yes | Yes |
| COLORSPAN DISPLAYMAKER | Hi-Res 8/ Esprit/ Series XII | EC*, PC | See Printing Notes | Yes | No | No | Yes |
| MUTOH FALCON | RJ-4100/ RJ-6100 | Dye*, Pigment | See Printing Notes | Yes | Yes-Dye No-Pigment | 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 | Yes | Yes-Dye No-Pigment | Yes | Yes |
| EPSON STYLUS PRO | 7000/9000 | Dye* | See Printing Notes | Yes | Yes | Yes | Yes |
| EPSON STYLUS PRO | 7600/9600 10000/10600 | Photographic Dye* | See Printing Notes | Yes | Yes | Yes | Yes |
| EPSON STYLUS PRO | 7500/9500 | Pigment | See Printing Notes | Yes | No | Yes | Yes |
| EPSON STYLUS PRO | 10000 Series | Archival Pigment | Backlight Film | Yes | No | Yes | Yes |
| EPSON STYLUS PRO | 7600/9600 10600 | ULTRA- CHROME Pigment | Glossy Film | Yes | No | Yes | Yes |
| EPSON STYLUS PRO | 7800/9800 | ULTRA- CHROME K3 Pigment | Double Weight Matte Paper | Yes | No | Yes | Yes |

For optimum durability, laminate or overcoat soon after printing within 4 hours).

Note: KODAK Universal Backlit Film / 8mil 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 overlaminate. "Lightfast" inks include: ENCAD GX, ILFORD ARCHIVA, COLORSPAN ENDURACHROME, HEWLETT-PACKARD dyes, and KODAK PROFESSIONAL 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 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 | 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.

Viewing and Taking Density Readings

When creating profiles for media that is viewed by transmissive light, use transmission measurement devices. Transmission measurement devices, especially those which are strip readers, often need to be calibrated several times before they are ready to take density readings.

If a transmission measurement device is not available, acceptable profiles can be created with a reflective device by placing the media printed side up on white paper (a piece of inkjet paper will work) when making measurements. Results may be slightly lighter and less saturated than when a true transmission device is used, but it will provide you with a good starting point and, if necessary, you can adjust the brightness and colors with your RIP or image manipulation software.

HEWLETT-PACKARD Printers

Some backlit medias may not work properly with the media sensors on printer take-up spools, such as those supplied with the HP DESIGNJET 5000 and 5500 printers. When this happens, tape a cut piece of the same media over both the front and back media take-up sensors. This will provide enough density for the take-up spool to work correctly. Be sure to remove these pieces when using other types of media or the take-up spool will not operate correctly.

In low humidity environments many types of film-based media will show static marks when printed on HP DESIGNJET 5000 series 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 chanels, 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.

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.
- 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

For best results, use inkjet-specific laminate products and follow the laminate manufacturer's instructions. It is important that your print be dry before laminating. Lamination performance varies as a function of materials, technique, and environmental conditions. For increased durability, choose a laminate with UV protection.

Mounting

For a rigid, durable backlit display, laminate this media and mount it to PLEXIGLASS with an optically clear mounting adhesive. A low-glare front laminate is desirable to reduce reflections in brightly lit areas.

In view boxes that have PLEXIGLASS in them already, mounting is not necessary, and a thicker (10-mil) surface laminate may offer enough rigidity for the print to lay flat. For extra rigidity or for larger displays, laminate the back of the print with a laminate equally thick as the front material.

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.

Do not use this media in a light box or area where the temperature exceeds 80°C (176°F). As with all filmbased media, exposure to high temperatures will cause the base to warp or buckle.

PERFORMANCE GUARANTEE

Indoor Applications (Fluorescent Display)

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). PLEXIGLAS™, LEXAN™, or a similar sheet must protect prints, and light box illumination is expected to not exceed 5000-lux fluorescent. 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 | |
|------------------|-------------------------|-----------------------------------|---------------------|--|
| HEWLETT-PACKARD | 2000/3000/5000 Series | 4/6 Color Dye | 1 year laminated | |
| DESIGNJET | 2000/3000/3000 Series | 4/6 Color UV | 2 years laminated | |
| | | 4/8 Color GS+ | 3 months laminated | |
| ENCAD NOVAJET | 800/700/600/500 Series | 4/8 Color GX | 18 months laminated | |
| | | 4/6/8 Color GO+ | 18 months laminated | |
| ENCAD NOVAJET/ | 1000i/ | Qi Dye | 6 months laminated | |
| KODAK | 1200i | 6 Color Qi Pigment | 2 years laminated | |
| | 7600/9600/10000/10600 | 6 Color Photographic Dye | 3 months laminated | |
| | 10000/10600 | 6 Color Archival Pigment | 1 year laminated | |
| | 7000/9000 | 00/9000 6 Color Dye | | |
| EPSON STYLUS PRO | 9500 | 6 Color Pigment | 1 year laminated | |
| | 7600/9600/10600 | 7 Color ULTRACHROME Pigment | 6 months laminated | |
| | 7800/9800 | 8 Color ULTRACHROME K3 Pigment | 6 months laminated | |
| | 7250D/7200D/8200D/8400D | 6 Color Dye | 1 month laminated | |
| CANON | 6200Pg/8200Pg | 6 Color Pigment | 2 years laminated | |
| | 6400Pg/8400Pg | 6 Color Pigment | 2 years laminated | |

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Outdoor Applications

Outdoor exposure, including exposure to ultraviolet radiation, moisture, oxidation, and chemical pollutants all influence the final outdoor longevity of a graphic image. Kodak 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, Kodak guarantees prints from the systems below against excessive fading, peeling, cracking, yellowing, bleeding, and running for the periods stated below. PLEXIGLASTM, LEXANTM, or a similar sheet must protect prints, and light box illumination is expected to not exceed 5000-lux fluorescent.

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

| Manufacturer | Model | Ink | Durability | |
|------------------------------|------------------------|--------------------------------|-----------------------|--|
| HEWLETT-PACKARD DESIGNJET | 2000/3000/5000 Series | 4/6 Color UV | > 6 months laminated* | |
| ENCAD NOVAJET | 800/700/600/500 Series | 4/6/8 Color GO+ | > 6 months laminated* | |
| ENCAD NOVAJET/ | 1000i/ | 4 Color Qi Pigment | > 6 months laminated* | |
| KODAK | 1200i | 6 Color Qi Pigment | > 6 months laminated* | |
| | 10000/10600 | 6 Color Archival Pigment | > 6 months laminated* | |
| | 9500 | 6 Color Pigment | > 6 months laminated* | |
| EPSON STYLUS PRO | 7600/9600/10600 | 7 Color ULTRACHROME Pigment | > 6 months laminated* | |
| | 7800/9800 | 8 Color ULTRACHROME Pigment | > 6 months laminated* | |
| CANON | 6200Pg/8200Pg | 6 Color Pigment | > 6 months laminated* | |
| CANON | 6400Pg/8400Pg | 6 Color Pigment | > 6 months laminated* | |

^{*}Durability ratings are not final: Testing in progress.

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 PROFESSIONAL LIGHTFAST PLUS Dye | ENCAD GX |
| COLORSPAN EC Dye | ENCAD GX |
| COLORSPAN PC Pigment | 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 Universal Backlit Film / 8mil

| Roll | Roll Width / Order No. | | | | | |
|---------------------------|------------------------|------------------|-------------------|-----------------|-------------------|--|
| Length | 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) | NA | 222773-00 | 222774-00 | 222775-00 | 222776-00 | |
| 16.4 ft (5 m) (sample) | 222772-00 | NA | NA | NA | NA | |

NA = Not available

PHYSICAL CHARACTERISTICS

| Physical Characteristics | Value | Test Method Reference |
|--------------------------------|---|-----------------------|
| Caliper | 8 mil (203 µm) | ISO 534 |
| Opacity | >70 | Tappi T 524 |
| CIE Whiteness | 157 | Tappi T 524 |
| Weight | 275 g/sm | ISO 536 |
| Brightness | 116 | Tappi T 524 |
| 60-degree Gloss | <5 | ISO 7668 |
| L*(D65/10 uvi/BBW) | 98 | Tappi T 524 |
| Flame Spread Classification | TBD | 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 Kodak's website at www.kodak.com/go/wfisupport or, in the U.S., contact Kodak Technical Support at 1-888-436-2347.

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





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