

# DTR 4401

CONSISTENT,  
HIGH-QUALITY  
DIGITAL FILM



## Exceptional image quality

Kodak DTR Film/4401/6.5mil/Matte produces consistent, reliable and high-quality results for prepress film applications that have historically required conventional silver halide film usage. Its proprietary black, dye-based mask is removed by thermal ablative imaging that uses an infrared laser source (peak sensitivity is at 830 nm, and the overall range is 800–850 nm). When imaged on Kodak's thermal imagers, Kodak DTR 4401 Film delivers high-contrast, sharp image reproduction with exceptional background clarity.

## Reduced overall processing costs

Unlike traditional film, DTR 4401 Film does not require film processing equipment and chemistry, lowering overall processing costs compared to conventional systems. Costs associated with processing equipment, service, maintenance, supplies, waste disposal and labor can be eliminated entirely, while chemistry and water consumption are reduced.

## Enhanced productivity

Adding Kodak DTR 4401 Film to your workflow can reduce prepress time, improve process efficiency and lower environmental impact, without compromising exceptional image quality. This innovative film is designed to be imaged on Kodak's thermal imagers in just a few simple steps. By eliminating processing, this digital film saves time and minimizes the opportunity for process variations that can necessitate startovers. In addition, DTR 4401 Film can be handled in yellow or UV-modified fluorescent lighting for easier cutting and manipulation. And you no longer need to maintain a separate darkroom.

## Multiple applications

Kodak DTR 4401 Film was specifically developed to offer the flexibility of working with a wide variety of plates and applications. Supported applications include:

- Liquid photopolymer platemaking
- Analog flexographic platemaking
- Analog offset platemaking
- Analog letterpress platemaking
- Silkscreen frame production
- Overlays for proofing and text registration
- Digital image enlargements

Optimized for use with a range of Kodak Imagers, DTR 4401 Film resolves the maximum dot quality that each of these devices can deliver to produce images of the highest possible quality.

## Complete solutions for flexo applications

Kodak DTR 4401 Film is part of Kodak's broad portfolio of graphics workflow and printing solutions for packaging. Combining DTR 4401 Film with Kodak Flexcel SR Plates—Kodak's family of analog flexo plates—is a powerful solution that meets the most challenging graphic requirements. In addition to its outstanding imaging characteristics, DTR 4401 Film's matte coating ensures faster and intimate drawdown and the sharpest possible image transfer to Flexcel SR Plates, resulting in a plate that delivers consistently straight lines, deep reverses and image integrity in the tonal areas. Kodak DTR 4401 Film and Flexcel SR Plates can also be imaged on the Kodak Flexcel NX System, expanding the range of plate types that can be produced on this award-winning digital flexo prepress system.

# Kodak DTR Film/4401/6.5 mil/Matte

## Technical specifications

Platesetter compatibility	<ul style="list-style-type: none"> <li>• <b>Kodak Thermoflex</b> Narrow, Mid, Wide and Wide II Platesetters</li> <li>• <b>Kodak Trendsetter</b> Q400, Q800, Q1600, Q2400 and Q3600 Platesetters</li> <li>• <b>Kodak Flexcel</b> NX Narrow, Mid, Wide-C and Wide 5080 Imagers</li> </ul>
Sizes	<p>11.8" x 9.8" (300 mm x 250 mm); 40 sheets            17.13" x 25.16" (435 mm x 639 mm); 40 sheets            18.11" x 25.98" (460 mm x 660 mm); 40 sheets            19.7" x 13.8" (500 mm x 350 mm); 40 sheets            23.3" x 31.3" (591 mm x 794 mm); 30 sheets            23.6" x 29.5" (600 mm x 750 mm); 40 sheets            30" x 30" (762 mm x 762 mm); 40 sheets            29.5" x 39.4" (750 mm x 1000 mm); 40 sheets            31.25" x 31.25" (794 mm x 794 mm); 30 sheets            31.3" x 41.3" (794 mm x 1048 mm); 25 sheets            33.0" x 44.2" (838 mm x 1123 mm); 20 sheets            43.19" x 61.18" (1097 mm x 1554 mm); 60, 30 or 20 sheets            49" x 79" (1245 mm x 2007 mm); 40 sheets            50.5" x 81.2" (1283 mm x 2062 mm); 40 sheets            30" x 98.4' (762 mm x 30 m); Roll            50" x 98.4' (1270 mm x 30 m); Roll            50" x 148' (1270 mm x 45 m); Roll</p>
Base film thickness	Material: polyester; Thickness: 6.5 mil (0.0065 in); Matte coated
Visual appearance	Black
Dmin	0.10 UV TOD; ~0.05 Ortho TOD – bluish in appearance
Dmax	>3.4 UV TOD; >2.0 Ortho TOD – black in appearance (blocks UV)
Resolution	<ul style="list-style-type: none"> <li>• 200 lpi maximum (AM) on <b>Flexcel</b> NX Imagers and <b>Trendsetter</b> Platesetters</li> <li>• 175 lpi maximum (AM) on <b>ThermoFlex</b> Platesetters</li> <li>• 25-micron stochastic screening</li> </ul> <p>Dependent upon capability of imaging device.</p>
Safelight recommendations	Unexposed film has some sensitivity to prolonged white light exposure. For best results, handle film under yellow or UV-modified fluorescent light. Protect exposed film as you would unexposed film.
Film cleaning	Water or water/alcohol cleaners are NOT recommended as they will attack the films matte surface.
Opaqing	Ferric oxide or other water-based opaque is recommended for minor blemishes.
Film handling	This is a single usage film, and is more susceptible to fingerprinting and scratching than conventional films. Care should be taken when handling.
Dot etching	This film cannot be wet or dry etched.
Shelf life & storage	Unexposed film shelf life is eighteen (18) months. The expiration date is printed on the product label. Ideal storage conditions are in the original packaging, kept flat in a cool, dry, dark place: 32°F - 70°F (0°C - 21°C) and 50% RH. Exposed film is best stored the same as unexposed film.

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