



DITR Film

Consistent, high-quality digital film

miracloⁿ

Exceptional image quality

DITR Film 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 a FLEXCEL NX Imager, DITR Film delivers high-contrast, sharp image reproduction with exceptional background clarity.

Reduced overall processing costs

Unlike traditional film, DITR 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.

Enhanced productivity

Adding DITR 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 FLEXCEL NX 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, DITR 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

DITR 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 FLEXCEL NX imagers, DITR 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

DITR Film is part of Miraclo's broad portfolio of prepress solutions for package printing. Combining DITR Film with FLEXCEL SR Plates—Miraclo's family of analog flexo plates—is a powerful solution that meets the most challenging graphic requirements.

In addition to its outstanding imaging characteristics, DITR 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.

DITR Film and FLEXCEL SR Plates can also be imaged on the FLEXCEL NX System, expanding the range of plate types that can be produced on this award-winning digital flexo platemaking system.

Technical Specifications

	DITR FILM
Platesetter compatibility	FLEXCEL NX Narrow, Mid, Wide 4260, Wide 3548 and Wide 5080 Imagers
Plate compatibility	Fully compatible with most analog flexo plates (including FLEXCEL SR Plates), liquid photopolymer plates and analog litho plates.
Product format	Available in both sheet and roll format. Consult with product catalog for the latest format offerings.
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"> • 200 lpi maximum (AM) on FLEXCEL NX Imagers • 25-micron FM screening <i>Dependent upon capability of imaging device.</i>
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 film's matte surface.
Opaquing	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.