



FLEXCEL NXUH Plates & Thermal Imaging Layer **Ultra fast. Ultra clean. Ultra efficient.**

miraclon

FLEXCEL NX Systems have transformed the capabilities of flexo printing for the entire packaging value chain for a decade, with a level of consistency, on-press efficiency, and print quality previously unachievable with flexo. Today, we have a new addition to the FLEXCEL NX family. The FLEXCEL NX Ultra Solution offers these same sought-after benefits in a solvent-free, VOC-free platemaking environment that delivers an impressive press-ready plate in less than an hour.

Peak performance

With high-performing FLEXCEL NX Ultra Plates surpassing expectations, printers can now offer a differentiated product to brand clients with measurable productivity gains and remarkable standardization in the pressroom. Ideal for label, paperboard, and flexible packaging applications, these performance-rated plates facilitate incredibly fast job changeovers, consistent color — yes, even on long runs — and outstanding print quality. Excellent plate drape also means easy mounting.

Unique technology

Thanks to our legacy-building imaging and materials technology, we continue to deliver serious competitive advantages your way. FLEXCEL NX Thermal Imaging Layer (TIL) uses unique film technology for the highest resolution image carrier in the graphic arts industry. Combined with a patented lamination process, you get absolute image fidelity in an exceptionally efficient platemaking process.

Looking for an unprecedented level of ink transfer control during printing? Fully compatible with PureFlexo Printing, FLEXCEL NX Ultra Plates deliver superb quality and production efficiency benefits you can take to the bank.

Plate kit convenience

Offering matched quantities of FLEXCEL NX Ultra Plates and sheets of FLEXCEL NX Thermal Imaging Layer, plate kits make ordering and inventory control simple and efficient.

Solvent-free platemaking that delivers a press-ready plate in less than an hour

A complete solution

When you pair the FLEXCEL NX Ultra Plates and FLEXCEL NX Ultra Processing System with the industry-leading imaging capabilities of the well-established FLEXCEL NX System, it creates a powerhouse system with an optimized end-to-end digital flexo platemaking solution.

Miraclon innovation and service means putting products and customers first. By staying true to our best values, we turn the page on an exciting new chapter with FLEXCEL NX Ultra in upholding a creative standard of transforming the flexo industry for another decade to come.

Technical Specifications

FLEXCEL NXUH PLATE KITS

A wide range of finished plate size options are available. Contact your sales representative for more details.

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|--------------------------------------|---|------------------|------------------|------------------|------------------|
| Nominal plate size | | 24.0 x 30.0 inch | 31.5 x 42.0 inch | 35.4 x 47.2 inch | 42.0 x 60.0 inch |
| | | 610 x 762 mm | 800 x 1067 mm | 900 x 1200 mm | 1067 x 1524 mm |
| Thermal Imaging Layer (TIL-R) | 6.5 mil (0.0065 inch) | • | • | • | • |
| Safelight recommendations | Prolonged exposure should be under process yellow or UV-modified fluorescent light. | | | | |
| Storage | Store flat and use in a controlled environment of 17 - 30°C (63 - 86°F) and at 40 - 60% RH. | | | | |
| Handling | Handle plates carefully. | | | | |

TECHNICAL DATA FOR A FINISHED PLATE

| | NXUH 1.14 | NXUH 1.70 |
|----------------------------------|---|------------|
| Thickness/Gauge | 1.14 mm | 1.70 mm |
| | 0.045 inch | 0.067 inch |
| Durometer (Shore A - A00) | 73 - 79 | 65 - 71 |
| Minimum dot | 10 µm | 10 µm |
| Isolated dot reproduction | 150 µm | 150 µm |
| Fine line reproduction | 20 µm | 20 µm |
| Raw plate color | Orange | |
| Plate resolution | 0.4 - 99.6%, 300 lpi (118 l/cm) @ 2400dpi, 25 micron FM Screening | |
| Ink compatibility | Aqueous, solvent-based, UV-cured and EB-cured inks | |
| Substrates | Films, foils, shrink films, envelopes, paper, pressure sensitive labels, preprint liner | |