



FLEXCEL NXH Plates & Thermal Imaging Layer

Maximum versatility, enhanced productivity

miraclon

Flexo transformed

The award-winning FLEXCEL NX System uses unique imaging technology and plate materials to drive unparalleled shelf impact with less complexity and downtime on press.

Print performance for challenging graphic requirements

The unrivalled performance of FLEXCEL NXH Plates comes from the combination of our unique technology: the FLEXCEL NX Thermal Imaging Layer, utilizing unique imaging technology, and lamination: this powerful combination provides high-resolution imagery on the plate, with 1:1 dot replication, and stable, predictable ink transfer.

DIGICAP NX Patterning with Advanced Edge Definition enables exceptional ink laydown control, expanding your achievable color gamut and delivering better print contrast, improved tonal range, smooth solids, bright colors and crisp text.

Maximum versatility

FLEXCEL NXH Plates are designed to print on a wide variety of substrates, supporting an array of applications within the flexible packaging, tag and label, folding carton and preprint corrugated packaging market segments.

Speed and ease of use

FLEXCEL NXH Plates offer wide exposure latitude with short drying times, necessary to meet your demanding print quality requirements and production schedules. In addition, our durable plates are easy to mount, are resistant to wear and abrasion, and come up to color quickly on press, so you realize increased consistency, productivity and enhanced print quality.

Unparalleled shelf impact
with less complexity and
downtime on press

Packaged for your convenience

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

World-class partner

From start to finish, Miraclon brings leading edge technology solutions to the packaging value chain. A passion for what we do, and solid relationships with customers, brands, and technology suppliers mean a collective momentum that is igniting industry change for flexo.

Technical Specifications

FLEXCEL NXH PLATE KITS

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

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	50.0 x 65.0 inch	50.0 x 80.0 inch
		610 x 762 mm	800 x 1067 mm	900 x 1200 mm	1067 x 1524 mm	1270 x 1651 mm	1270 x 2032 mm
Thermal Imaging Layer (TIL)	6.5 mil (0.0065 inch)	•	•	•	•		
Thermal Imaging Layer (TIL-R)			•	•	•	•	•

Safelight recommendations	Prolonged exposure should be under 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 the film by the corners. Avoid scratching and kinking. Handle plates carefully.

TECHNICAL DATA FOR A FINISHED PLATE

	NXH 1.14	NXH 1.70	NXH 2.54	NXH 2.84
Thickness/Gauge	1.14 mm	1.70 mm	2.54 mm	2.84 mm
	0.045 inch	0.067 inch	0.100 inch	0.112 inch
Durometer (Shore A)	71 - 77	63 - 69	58 - 64	57 - 63
Minimum dot	10 µm	10 µm	10 µm	10 µm
Minimum isolated dot reproduction	50 µm	50 µm	50 µm	50 µm
Minimum fine line reproduction	20 µm	20 µm	20 µm	20 µm
Raw plate color	Yellow			
Plate resolution	0.4 - 99.6%, 300 lpi (118 l/cm) @ 2400dpi, 25 micron FM Screening			
Ink compatibility	Water-based, solvent-based, UV-cured and EB-cured inks			
Washout solutions	Compatible with most washout solvents. A list of certified solutions are available upon request.			
Substrates	Films, foils, shrink films, envelopes, paper, pressure sensitive labels, preprint liner			