



FLEXCEL NXG Plates & Thermal Imaging Layer-R

Unique media, exceptional results for corrugated

miraclon

Do more with less

The award-winning FLEXCEL NX System uses unique imaging technology and plate materials to drive outstanding shelf impact at the lowest total delivered cost. Users benefit from more impactful graphic reproduction with less complexity and downtime on press.

Unique technology

For post-print corrugated applications we offer FLEXCEL NXG Plate Kits in a wide variety of sizes. Plate kits provide the two key materials required to create a finished FLEXCEL NXG Plate. The FLEXCEL NX Thermal Imaging Layer-R is designed to provide rapid, high-resolution imaging on the FLEXCEL NX System, and delivers a stable and predictable imaged mask for plate exposure. Lamination ensures intimate optical contact between the imaged layer and the FLEXCEL NXG Plate, allowing 1:1 dot reproduction onto the plate, and support for advanced plate surface patterning.

Exceptional quality and performance

FLEXCEL NXG Plates are high-quality, lower durometer flexographic plates that provide full tonal reproduction, low dot gain, and robust on-press performance. Higher line screens are possible with existing press equipment, and excellent ink transfer and coverage minimizes fluting and increases visual impact, even on lower quality liner materials.

Maximum versatility

FLEXCEL NXG Plates are designed to print with water-based inks on post-print board with a wide variety of liner and flute types. They are suitable for a broad range of graphic reproduction requirements from simple line and tone work, to complex full process color content.

Users benefit from more impactful graphic reproduction with **less complexity and downtime on press.**

Speed and ease of use

FLEXCEL NXG Plates offer wide exposure latitude with efficient drying times, necessary to meet your demanding print quality requirements and production schedules. In addition, the plates are easy to mount and are highly resistant to ozone, wear and abrasion, so you realize increased consistency, productivity and enhanced print quality.

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 NXC PLATE KITS

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

Nominal plate size		33.46 x 70.86 inch	42.0 x 60.0 inch	42.0 x 80.0 inch	50.0 x 65.0 inch	50.0 x 80.0 inch
		850 x 1800 mm	1067 x 1524 mm	1067 x 2032 mm	1270 x 1651 mm	1270 x 2032 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 the film by the corners. Avoid scratching and kinking. Handle the plates carefully.					

TECHNICAL DATA FOR A FINISHED PLATE

	NXC 2.84	NXC 3.18	NXC 3.94
Thickness/Gauge	2.84 mm	3.18 mm	3.94 mm
	0.112 inch	0.125 inch	0.155 inch
Durometer (Shore A)	36 - 40	34 - 38	33 - 37
Minimum dot	20 µm	20 µm	20 µm
Minimum isolated dot reproduction	75 µm	75 µm	75 µm
Minimum fine line reproduction	50 µm	50 µm	50 µm
Raw plate color	Purple		
Plate resolution	1% @ 150 lpi (60 l/cm)		
Ink compatibility	Water based		
Washout solutions	FLEXCEL NXC Plates can be processed with a range of washout solutions. A list of certified solutions are available upon request. Processing times are determined by equipment. Contact your sales representative to provide guidance on plate processing optimization.		