Kodak

Flexcel NX

Digital Flexographic Plates

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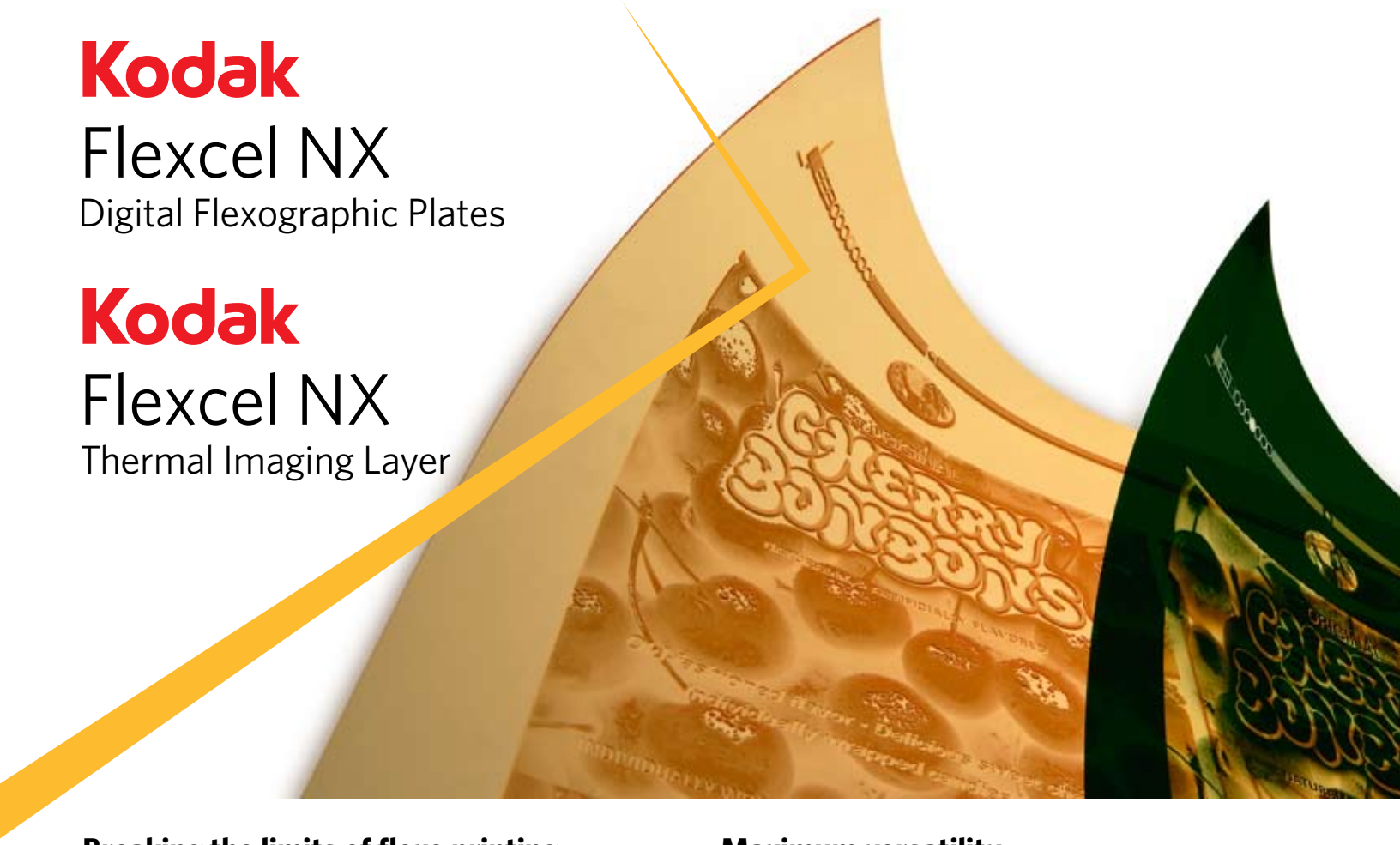
Thermal Imaging Layer



Breaking the limits of flexo printing

With the **Kodak Flexcel** NX Digital Flexographic System, you can now print the same high-quality image possible with gravure directly onto a flexible pouch, box or label, overcoming many of the limitations of both analog and existing digital flexographic plate technologies.

Gravure class print quality

The unique formulation of the **Kodak Flexcel** NX Thermal Imaging Layer provides high-resolution and fast imaging on the **Kodak Trendsetter** NX Imager, while the **Kodak** SQUARESPOT Imaging Technology enables consistent and repeatable dots as small as 10 microns. Lamination ensures intimate optical contact between the imaged layer and the **Kodak Flexcel** NX Digital Flexographic Plate, allowing 1:1 dot reproduction onto the plate.

Exceptional quality for challenging graphic requirements

Flexcel NX Plates are high-quality flexographic plates providing excellent ink transfer, smooth solids, uniform lay down and robust on-press performance. You can accurately reproduce the sharpest image detail, including reverse printing. The unique plate surface provides smoothness for uniform ink transfer, resilience for high press speeds and expanded durability for consistency throughout the press run and on reruns.

Maximum versatility

Flexcel NX Plates are designed to print on a wide variety of substrates, including flexible packaging, foil, film, paper, plastic bags, labels and envelopes. In addition, the plates are compatible with a wide variety of inks, including water-based, solvent-based, UV-cured and cationic inks.

Speed and ease of use

Flexcel NX Plates offer wide exposure latitude with short 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.

Complete solution for packaging

Kodak offers a full range of dependable products for packaging print operations. The **Flexcel** NX Digital Flexographic System joins Kodak's portfolio of prepress, lithographic and proofing products for packaging. You can experience the benefits of an efficient, complete system from one supplier and realize consistent results, not only from run to run, but also from location to location, anywhere in the world.

Kodak Flexcel NX Digital Flexographic System

Technical specifications for a finished Kodak Flexcel NX Digital Flexographic Plate

NX thickness	1.14 mm / 0.045"	1.70 mm / 0.067"	2.72 mm / 0.107"
NX durometer	73° Shore A	64° Shore A	60° Shore A
Relief depth (recommended)	0.62 - 0.66 mm (0.024 - 0.026")	0.72 - 0.76 mm (0.028 - 0.030")	1.00 - 1.04 mm (0.039 - 0.041")
Resolution	0.4 – 99.6%, 300lpi @ 2400 dpi, 25 micron **Kodak Staccato** Screening		
Minimum dot	10µm minimum (0.4 mil minimum)		
Isolated dot reproduction	50µm minimum (2 mil minimum)		
Fine line reproduction	20µm minimum (0.8 mil minimum)		

Technical specifications for a Kodak Flexcel NX Digital Flexographic Plate

NX plate sizes	610 x 762 mm (24 x 30"), 800 x 1067 mm (31.5" x 42")
Ink compatibility	Aqueous, solvent-based, UV-cured and cationic inks
Wash-out solution	Compatible with most wash-out solvents
Safelight recommendations	Prolonged exposure should be under yellow or UV-modified fluorescent light.
Handling and storage	Handle the plates carefully. Store flat and use in a controlled environment of 0°C - 40°C (32°F - 104°F) and at 40 – 60% RH.

Technical specifications for a Kodak Flexcel NX Thermal Imaging Layer

TIL sizes	640 x 838 mm (25.2 x 33.0"), 838 x 1097 mm (33.0 x 43.2")
TIL thickness	6.5 mil (0.0065")
Safelight recommendations	Prolonged exposure should be under process yellow or UV modified fluorescent light.
Handling and storage	Handle the layer by the corners. Avoid scratching and kinking the layer. Store flat and use in a controlled environment of 10°C - 25°C (50°F - 77°F) and at 40 – 60% RH.

Processing steps	1.14 mm / 0.045"	1.70 mm / 0.067"	2.72 mm / 0.107"
Back exposure time*	0.36 - 0.54 joules: 20 - 30 seconds	0.36 - 0.54 joules: 20 - 30 seconds	0.36 - 0.54 joules: 20 - 30 seconds
Main exposure time*	16 -22 joules: 15 - 20 minutes	16 -22 joules: 15 - 20 minutes	18 - 25 joules: 17 - 23 minutes
Wash-out** (inches per minute)	6 ipm	6 ipm	5 ipm
Drying at 50°C - 60°C (122°F-140°F)	120 minutes	120 minutes	120 minutes
Finishing UVC*	10 joules: 10 - 12 minutes	10 joules: 10 - 12 minutes	10 joules: 10 - 12 minutes
Post exposure UVA*	1 - 6.0 joules: 1 - 6 minutes	1 - 6.0 joules: 1 - 6 minutes	1 - 6.0 joules: 1 - 6 minutes

* Times may vary depending on the output strength of UV Lamps. Adjust accordingly.

** Times will vary depending on the wash-out solvent and processing equipment used. Times shown are based on an in-line processor with solvit. Adjust accordingly.

To learn more about solutions from Kodak:
www.kodak.com/go/packaging
Or in North America, call +1-866-563-2533

Produced using **Kodak** Technology.

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