



Kodak

Flexcel NX

Digital Flexographic Plates

Kodak

Flexcel NX

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 allows high-resolution, fast imaging on the **Kodak Trendsetter NX** Imager, while **Kodak SQUAREspot** Imaging Technology enables consistent and repeatable dots as small as 10 microns. Lamination ensures intimate optical contact between the 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 enjoy 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) | 0.028 - 0.030" | 0.028 - 0.030" | 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

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|---------------------------|--|
| 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 | Store flat and use in a controlled environment of 10°C - 25°C (50°F - 77°F) and 40 - 55% RH. |

Technical specifications for a Kodak Flexcel NX Thermal Imaging Layer

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|---------------------------|---|
| TIL sizes | 640 x 800 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 | Store flat and handle the imaging layer by the corners. Do not nick or scratch the coating. |

| 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 | 3 - 6 minutes | 3 - 6 minutes | 3 - 6 minutes |
| Drying at 50°C - 60°C (122°F-140°F) | 120 minutes | 120 minutes | 120 minutes |
| Finishing UVC* | 0.3 joules: 10 - 12 minutes | 0.3 joules: 10 - 12 minutes | 0.3 joules: 10 - 12 minutes |
| Post exposure UVA* | 0.3 joules: 10 - 12 minutes | 0.3 joules: 10 - 12 minutes | 0.3 joules: 10 - 12 minutes |

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