

Platemaking Services

KODAK EKTALEX
FUNCTIONAL PRINTING SOLUTIONS

Custom patterned high resolution flexographic plates

It's flexo — but not as you know it

With EKTALEX, we've taken the huge advances made in flexography over the past decade and spun them in a whole new direction: using flexo to achieve ultra-high-resolution, enabling the use of flexography for high-speed functional printing.

EKTALEX custom patterned plates can be used to print ultra-high-resolution features that can be finer than a human hair, on a wide range of substrates, from paper and plastic to metal foils, film and glass. It uses the same technology we've proven in our own manufacturing operations and are now making available to partners.

What's your thing

The EKTALEX product suite has been successfully used to print elements of touch screens, antennas, sensors, displays and more. We're now looking to enable your business.

Perhaps you're making:

- Roll-to-roll photovoltaics for solar power?
- Thin film batteries for IoT energy storage?
- Passive and active circuitry, security watermarks, optical features or RFID tags?
- Flexible surface heating?
- Conformable or wearable sensors?

Getting started with EKTALEX is easy. With our platemaking services, we can deliver high-resolution EKTALEX plates that are patterned

to your specifications and ready for use on your press. So you can deliver new capabilities to your customers, expanding your functional printing portfolio and addressable market.

Leverage KODAK SQUARESPOT technology

At 12,800 dpi, we create the highest resolution flexographic plates available. And our award winning SQUARESPOT technology separates us even further from any alternatives by producing precise and robust square 'dots'. This provides more accurate stable edges for better performance of printed functional patterns.

A partner you can trust

- One with unique experience in high-resolution functional printing
- We've been using EKTALEX prepress solutions to produce printed electronics in-house for more than 5 years
- Imaging, production and packaging happens in a Class 1000 cleanroom environment
- The Kodak legacy in quality processes and products is behind everything we do

Our service team can help you get the most out of EKTALEX plates on press – for truly remarkable, truly functional printed electronics and optical features.



KODAK EKTAFLEx

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Work with our design team to optimize your design files onto EKTAFLEx plates. The process will begin with a review of your operation and plate needs.

Each custom plate starts with design translation and custom rendering services and ends with the delivery of high-fidelity custom patterned plates to your facility. Reorders can leverage original rendering, delivering fresh plates with the same EKTAFLEx plate quality order after order.

Imaging specifications	
Imager resolution:	12,800 dpi Features down to 2µm (consult with us on design considerations below 8µm)
File input	DXF, PDF, other CAD applications Preferred multilayered DWG/DXF; wire-frame, closed polyline
Usable image area	610 x 762 mm (24 x 30 in.) Multiple plates and separations can be located within the usable image area
Screening	Variety based on features Customer provided or selection of Kodak screens can be applied to each layer (consult with us for applications requiring a larger, single-plate image area)
Separations	Custom specification of the combination or separation of layers between customer-defined plates
Optional enhancements for better flexo printing	KODAK DIGICAP patterning for better print quality.
Flexographic plate specifications	
Dimensions	800 x 1067 mm (31.5 x 42.0 in.)
Plate Thickness	1.14 mm (0.045 in.)
Relief	125 to 425 µm
Durometer	73-79 Shore A
Ink compatibility	Aqueous, solvent-based, and UV-cured
On-plate resolution	2 µm for edge definition of larger areas; 4 µm for isolated features (consult with us on design considerations below 8 µm)
Additional services	
Design for function consulting services	Ensure your plates are designed to get the best possible feature reproduction
Design for printing consulting services	Ensure your printing conditions and processes will yield the best possible product

Contact us at sales.ektalex@kodak.com

We'll send you a questionnaire to get the discussion going.

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