MacDermid
GRAPHICS SOLUTIONS

Narrow Web Capabilities

Elevating Your Print to the Next Level

THE NARROW WEB MARKET

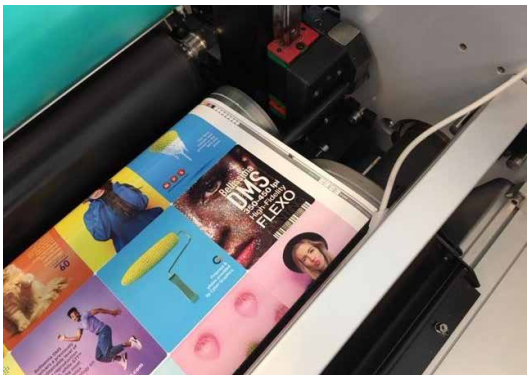
The narrow web market requires thin plates to produce high resolution, colorful print results for outstanding shelf impact. MacDermid offers industry leading photopolymer plates optimized for narrow web printing with both round top and flat-top dot options. Increasing productivity in platemaking, our thermally processable plates are formulated for long runs to produce vibrant, vivid images.

Industries that utilize narrow web printing:

- Food & Beverage
- Health & Beauty
- Pet Food & Care
- Medical & Pharmaceutical
- Textiles & Apparel

MGS SOLUTIONS FOR NARROW WEB PRINTING

Printing plates for this market must print clean, high-quality graphics for long periods of time. The narrow web market, typically tag & label printing, has traditionally used medium to hard durometer plates. This requirement was partially driven by the need to wrap a plate around a very small cylinder. Additionally, the plate must wrap and remain in place for an extended period. Our portfolio of flexographic printing sheet plate solutions consists of analog and digital sheet photopolymer. Our Digital Sheet portfolio for narrow web printing is outlined in the following table:



Product	Durometer	Clean Plate Tech. (1)	Flat-Top Dot	Round Top Dot	LUX Process (2)	UV LED (3)	UV ink (4)	Ozone Resistant	Thermal (5)	Solvent (6)
LUX® ITP™ 60	Hard	✓	✓			✓	✓	✓	✓	✓
LUX® ITP™ M	Medium	✓	✓			✓	✓	✓	✓	✓
LUX® ITP™ EPIC®	Medium	✓	✓			✓	✓	✓	✓	✓
Digital MAX	Hard			✓	✓		✓	✓	✓	✓
Digital MVP	Medium			✓	✓		✓	✓	✓	✓
Digital RAVE	Hard			✓	✓	✓	✓	✓		✓
UVR	Medium			✓	✓	✓	✓	✓	✓	✓

1. Patented
2. Flat-top dots with MGS exclusive LUX Lamination process
3. UV LED compatible
4. UV Ink compatible
5. Thermal plate processing
6. Solvent plate processing

PATENTED CLEAN PLATE TECHNOLOGY

Fast, complex, and high-quality are common demands in the narrow web market. MacDermid's LUX ITP plates feature our patented clean plate technology allowing printers and converters to meet the demands of their customers. Our clean plate technology reduces the number of press stops and ensures a cleaner print and better ink laydown. This technology increases quality and consistency enabling narrow web printers and converters stay competitive with competing print methods.

Printed Plate Comparison

The below images are selections from plates run on press for the same amount of time. Plate A and B have significant ink build-up remaining on the plate, while Plate C with MacDermid's Clean Plate Technology has minimal ink build-up.

Plate A

Plate B

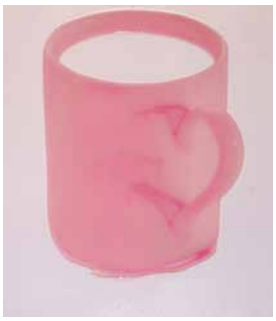


Plate C with Clean Plate Technology

LUX® ITP™ + LAVA®

The unique package of LUX ITP inherently flat-top dot plates and LAVA thermal processing is specifically designed to meet the needs of label and narrow web printers.

LUX ITP 60 has extremely high-resolution capabilities that allow for the ability to work with new screening packages on the market today. LUX ITP M is developed for tags and labels, paper stocks, and other applications where a combination of high durability and excellent ink laydown is required. LUX ITP EPIC combines a micro-rough surface optimizes ink transfer capitalizing on the benefits of the flat-top dot shape: increased impression latitude, reduced plate wear and improved fade to zero capability. The LUX ITP platform is also ideally suited for use with many of the emerging exposure and screening technologies of the day, capable of providing a foundation for the improvement of flexographic print quality in the years to come.

The combination of LUX ITP and LAVA NW or LAVA NW-M provide medium to hard durometer plates for smaller plate cylinders and a smaller footprint. The LAVA NW and LAVA NW-M produce press-ready plates in less than an hour with sleek and efficient designs and small overall footprints, which make them ideal for narrow web printing applications.

LAVA Units for Narrow Web

Model	Max Plate Size
LAVA NW	25 in x 30 in (635 mm x 762 mm)
LAVA NW-M	36 in x 48 in (914 mm x 1,219 mm)

FLEXOGRAPHIC PLATEMAKING EQUIPMENT

LAVA®

Thermal Plate Processing Systems

Fast and easy to use, MacDermid LAVA thermal plate processing systems are optimized for processing 25 in. x 30 in. to 50 in. x 80 in. plates for maximum productivity. LAVA integrates easily with the most popular front-end prepress systems and software, making it a plug-and-play solution for almost any workflow.

LUX®

LUX Laminator

LUX Laminator is the core of the LUX Lamination process used to create flat-top dots. The laminator is a simple device with a small footprint easily added to any digital platemaking workflow. The LUX Laminator is available in two formats: 38" max. working width and 62" max. working width.

Contact your MacDermid Account Manager for comprehensive plate and equipment solutions to optimize your workflow and meet your customers' demands.

EXPERT SERVICE & SUPPORT

Your work is our passion. Our sales and service teams are experts in flexo platemaking and print analysis. We offer a full range of services at our Atlanta Innovation Center and your location.

Capabilities

- Full suite of plate analysis
  - Betaflex / XRite
  - Multiple microscopic tools
  - SEMs for detailed dot by dot analysis
  - Surface profilometer for detailed surface analysis
- Training center for external or internal training
- Print analysis
- And more!

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