

LUX® ITP™ EPIC®

Photopolymer Plates



LUX® ITP™ EPIC®
Photopolymer Printing Plates

133 LINE
150 LINE
175 LINE

1% 25% 50% 90%

.003
.004

14 PT.
12 PT.
8 PT.
6 PT.

Flat-Top Dot
Excellent Ink Transfer
Solvent or Thermal Processing
Exceptional Consistency

MacDermid
GRAPHICS SOLUTIONS
www.macdermid.com/graphics

LUX® ITP™ EPIC®: Capped Flat-Top Dots Right Out of the Box

LUX® In-the-Plate (ITP)™ EPIC® is the newest addition to the award-winning technology from MacDermid that provides all the benefits of LUX® lamination, but with the convenience of flat-top dots right out of the box. No additional platemaking steps or equipment are needed to take advantage of the print quality and consistency that LUX® flat-top dots provide.

ITP™ EPIC® offers a unique micro-rough surface for excellent ink transfer for challenging flexo printing applications or unique ink requirements. The innovative cap layer, specifically developed for the ITP™ chemistry, ensures that the plate provides the best tonal range possible.





ITP™ EPIC® offers near 1:1 mask-to-plate imaging capability, thus minimizing the need for a bump curve. By reducing the bump curve, printers are able to expand the available color gamut and print a smaller dot.

LUX® ITP™ EPIC® is a durable and extremely low tack plate, which is perfectly suited for long and clean running print jobs. It has been designed to be processed in either solvent or LAVA™ thermal systems.

KEY FEATURES

- Flat-top dots directly in the plate
- Excellent ink transfer
- Clean print technology
- Near 1:1 mask-to-plate reproduction
- A balanced plate surface for low image gain and exceptional solids coverage
- Low dot gain
- Outstanding durability and drape
- Extremely low tack
- Solvent or thermal processing
- Fully compatible with UV LED exposure devices

SEGMENTS

- Flexible Packaging 
- Tags and Labels 
- Folding Carton 
- Sacks, Paper, Multiwall 



LUX[®] ITP[™] EPIC[®]

Photopolymer Plates



TECHNICAL SPECIFICATIONS

LUX[®] ITP[™] EPIC[®] is available in thicknesses of 0.045" (1.14 mm), 0.067" (1.70 mm), and 0.107" (2.72 mm) and in sizes up to 50" x 80" (1,320 mm x 2,032 mm). Please contact your MacDermid representative for details.

REPRODUCTION CAPABILITIES

Isolated Dots: 0.004 in. (0.10 mm) diameter
 Fine lines: 0.002 in. (0.05 mm) width
 Halftones: 1 - 99% at 175 lpi (69 lines/cm)

REPRODUCTION CAPABILITIES

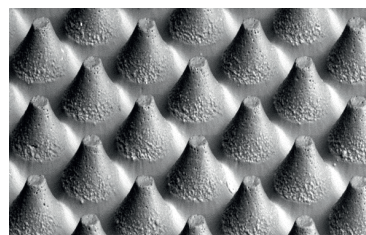
LUX[®] ITP[™] EPIC[®] can be processed in either solvent or LAVA[™] thermal processing systems. For solvent processing, use with SOLVIT[®] M100 or SOLVIT[®] QD is recommended. Most other safe-solvent solutions may be used. Processing times for any particular job are determined by equipment; consult your MacDermid representative for help in optimizing your plate processing.

INK/SOLVENT COMPATIBILITY

LUX[®] ITP[™] EPIC[®] plates have ink compatibility similar to natural rubber. Plates are compatible with water and alcohol based inks containing up to 20% acetate. LUX[®] ITP[™] EPIC[®] is not recommended for oil-based inks, hydro-carbon solvents, or inks with acetate content higher than 20%.

APPLICATIONS

LUX[®] ITP[™] EPIC[®] is a digital sheet photopolymer for use in labels, folding carton, multi-wall bag, preprinted liner, flexible packaging and other flexo markets that require a high durometer plate.



RECOMMENDED PROCESSING CONDITIONS*

GAUGE	DUROMETER	DESIRED RELIEF	BACK EXPOSURE ¹		FACE EXPOSURE ²		WASH OUT ³	DRY TIME	POST EXPOSURE ⁴	DETACK ⁵
(mil/mm)	(Shore A)	(mil)	(mJ/cm ²)	(sec)	(J/cm ²)	(min)	(sec)	(min)	(min)	(min)
45/1.14	73	20	537	37	13.8	10	280	90	5	3
67/1.70	66	24	870	60	13.8	10	320	120	5	3
107/2.72	57	25	1,813	125	13.8	10	320	120	5	3

*Contact your MacDermid representative for assistance in establishing proper processing conditions

1. Lamp intensity is 14.5 mW/cm²
2. Lamp intensity is 14.5 mW/cm²
3. SOLVIT[®] M100 washout times
4. Lamp intensity is 17 mW/cm²
5. Lamp intensity is 10 mW/cm²



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