LUX® ITP™ C

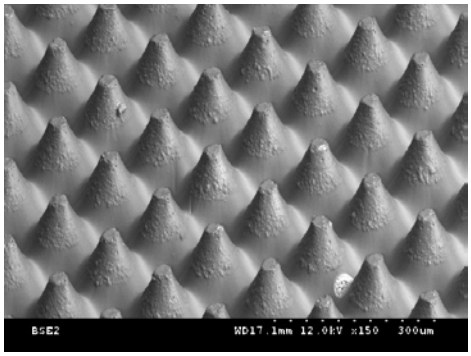
Photopolymer Plates

LUX® In-the-Plate™ Flat-Top Dots Right Out of the Box

LUX® In-the-Plate (ITP)™ C 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™ C 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. Similar to other products in the ITP™ product portfolio, ITP™ C offers 1:1 mask-to-plate imaging capability, thus eliminating the need for a bump curve. By removing the bump curve, printers are able to expand the available color gamut and print a smaller dot.

LUX® ITP™ C 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 while using standard platemaking techniques
- 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

Segments

Flexible Packaging

Folding Carton

Tags and Labels

Sacks, Paper, Multiwall

MacDermid GRAPHICS SOLUTIONS

LUX® ITP™ C

Photopolymer Plates

Technical Specifications

LUX® ITP™ C is available in thicknesses of 0.045" (1.14 mm) 0.067" (1.70 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 150 lpi (59 lines/cm)

Plate Processing:

LUX® ITP™ C can be processed in either solvent or LAVA™ thermal processing systems. For solvent processing, use with SOLVIT® M100, SOLVIT LO 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™ C plates have ink compatibility similar to natural rubber. Plates are compatible with water and alcohol based inks containing up to 20% acetate. LUX® ITP™ C is not recommended for oil-based inks, hydro-carbon solvents, or inks with acetate content higher than 20%.

Applications

LUX® ITP™ C 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)	(J/cm²)	(sec)	(J/cm²)	(min)	(sec)	(min)	(min)	(min)
45/1.14	73	20	493	34	8.7	10	280	90	5	3
6/1.70	64	20	522	36	8.7	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

MacDermid GRAPHICS SOLUTIONS

For more information, please contact:

USA
5210 Phillip Lee Drive
Atlanta, GA 30336
Phone: 404.696.4565

Europe
3 rue de l'Industrie - BP 30160
68702 Cernay Cedex, France
Phone: +33 (0) 3 89 38 43 12

www.macdermid.com/graphics