LUX® In-the-Plate

Photopolymer Plates

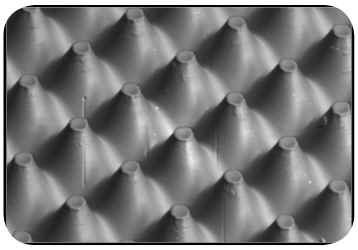
LUX In-the-Plate Flat-Top Dots Right Out of the Box

LUX In-the-Plate (ITP) is a game changing new technology exclusively 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.

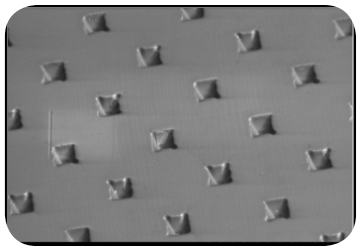
The first available LUX ITP plate product is LUX ITP 60. ITP 60 is a 60 durometer plate that offers 1:1 mask-to-plate imaging capability, thus eliminating the need for a bump curve. By removing the bump curve, printers are able to expand the available color gamut and print a smaller dot.

LUX ITP 60 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.

When you're looking to take your game to the next level, count on the flat-top dot technology leader, MacDermid.



5% at 150 lpi



90% at 150 lpi

Key Features

- **Flat-top dots while using standard platemaking techniques**
- **1:1 mask-to-plate reproduction**
- **Low dot gain**
- **Exceptional consistency in printing**
- **Outstanding durability and drape**
- **Extremely low tack**
- **Solvent or thermal processing**

Segments

Flexible Packaging

Folding Carton

Tags and Labels

Sacks, Paper, Multiwall

MacDermid
Printing Solutions

LUX® ITP 60

Photopolymer Plates

Technical Specifications

LUX ITP 60 is available in thicknesses of 0.045" (1.14 mm) and 0.067" (1.70 mm) and in sizes up to 52" 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. (0.05mm) width
Halftones: 1 - 99% at 150 lpi (59 lines/cm)

Plate Processing:

LUX ITP 60 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 60 plates have ink compatibility similar to natural rubber. Plates are compatible with water and alcohol based inks containing up to 20% acetate. LUX ITP 60 is not recommended for oil-based inks, hydrocarbon solvents, or inks with acetate content higher than 20%.

Applications

LUX ITP 60 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/cm²)	(sec)	(J/cm²)	(min)	(sec)	(min)	(min)	(min)
45/1.14	78	20	400	25	13.8	10	280	90	5	3
67/1.70	71	20	672	42	13.8	10	280	120	5	3

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

1. Lamp intensity is 16 mW
2. Lamp intensity is 23 mW
3. SOLVIT® M100 washout times
4. Lamp intensity is 17 mW
5. Lamp intensity is 10 mW

MacDermid Printing Solutions

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