

Digital MAX

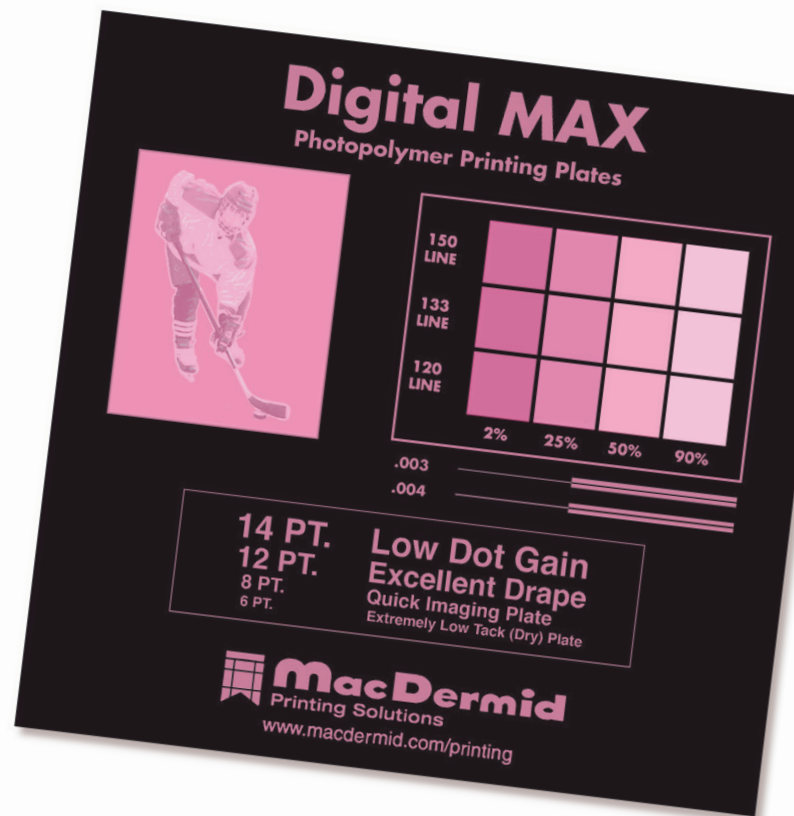
Photopolymer Plates

MAXimum Digital Print Quality Processed in Solvent or Thermal Systems. You Choose.

Digital MAX is the digital version of (analog) MAX, the newest hard plate from MacDermid. It delivers all of the benefits of MAX, plus the fine resolution and imaging capability expected from a digital photopolymer plate. And moving from an analog to digital is even easier because the plate's printing surface and high performance characteristics remain the same.

Digital MAX has been designed to give you the maximum choice, including the capability to be processed in either solvent or thermally in MacDermid's LAVA processor. Digital MAX also works with a wide variety of substrates and ink. This 60 durometer plate has excellent drape characteristics, making it well suited for all applications including small diameter print cylinders.

When it comes to giving you a choice in plate processing, count on the company that innovates with you in mind. MacDermid.



Key Features

- Solvent or thermal processing
- Excellent drape
- Low dot gain
- High resilience for clean running
- Extremely low tack (dry) plate

Segments

Flexible Packaging



Folding Carton



Tags and Labels



Sacks, Paper, Multiwall



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Technical Specifications

Digital MAX is available in thicknesses of 0.030"(0.76 mm) - 0.112"(2.84mm) and in sizes up to 52" x 80"(1,320mm x 2,032mm). Please contact your MacDermid representative for details.

Reproduction Capabilities

Halftones: 0.030-0.112" gauge (0.76mm – 2.84mm)
1-98% at 200 lpi (79 l/cm)

Fine lines: 0.003 in. (0.08mm) width

Isolated dots: 0.005 in. (0.13mm diameter)

Fine lines and isolated dots using 0.067 (1.70mm) plate

Plate Processing*

Digital MAX can be processed in either solvent or thermal 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, copy requirements, and plate thickness.

Recommended Processing Conditions*

Gauge (mil/mm)	Durometer (Shore A)	Desired			Face Exposure ²		Wash Out ³ (sec)	Dry Time (min)	Post Exposure ⁴ (min)	Detack ⁵ (min)
		Relief (mil/mm)	Back Exposure ^{1,2} (mj/cm ²)	(sec)	(J/cm ²)	(min)				
45/1.14	78	23/0.58	1025	70	8.8	10	300	90	5	5
67/1.70	71	24/0.61	1240	85	8.8	10	360	120	5	5
107/2.71	63	30/0.76	2480	170	8.8	10	450	150	5	5
112/2.84	63	30/0.76	2480	170	8.8	10	450	150	5	5

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

1. For thermally processed plates, back exposure is 30-50% less than for solvent processed plates

2. Lamp intensity 16mW

3. Solvit QD washout times

4. Lamp intensity 17 mW

5. Lamp intensity 10 mW

Ink/Solvent Compatibility

Digital MAX plates have ink compatibility similar to natural rubber. Plates are compatible with water and alcohol based inks containing up to 25% acetate. Digital MAX is not recommended for oil-based inks, hydrocarbon solvents, or inks with acetate ester content higher than 25%.

Applications

Digital MAX 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 hard durometer plate.



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