

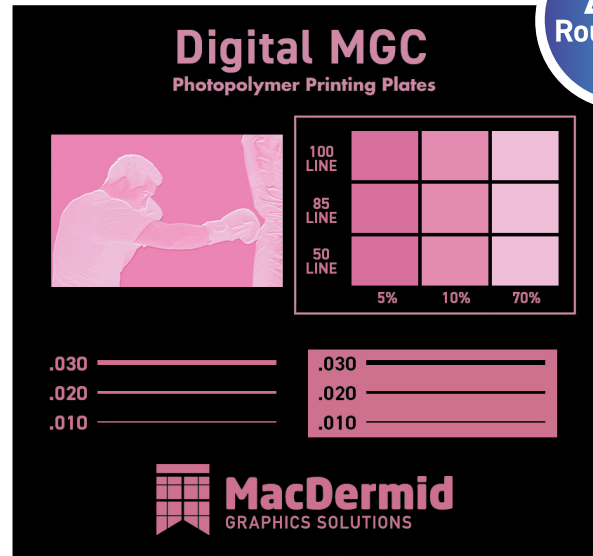


Digital MGC

Photopolymer Plates



A Digital Plate for Direct Print on Corrugated Board



MacDermid's Digital MGC is the digital sheet photopolymer specifically designed to address all direct print corrugated board requirements.

Digital MGC sheet photopolymer is the digital version of (analog) MGC. It delivers all the benefits of MGC, plus the fine resolution and imaging capability expected from a digital photopolymer plate. And moving from analog to digital is even easier because the plate's high performance surface remains the same.

The soft plate durometer, 32 Shore A, provides excellent solids coverage, while its low tack and high resilience offer long and clean press runs. Digital MGC has the added capability to quickly image the finest detail providing superior print quality and cycle time savings for the plate maker.

For exceptional direct printing on corrugated board, count on the experts at **MacDermid**.

FEATURES & BENEFITS

- Quick wash out
- Holds the finest detail in all plate thicknesses
- Image fidelity for high-end graphic and halftone reproduction in all plate thicknesses
- No cupping allows for uniform impression at all process speeds
- Chip resistant, tack free and extremely durable
- Fully compatible with LUX lamination and inert gas-based platemaking processes, enabling flat-top dot performance

SEGMENTS

- Corrugated 

Elevate Your Print to the Next Level



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TECHNICAL SPECIFICATIONS

Digital MGC is available in thicknesses of 0.107 in (2.72 mm) up to 0.250 in (6.35 mm) and in sizes up to 50 in x 80 in (1,270 mm x 2,032 mm). Please contact your MacDermid representative for details.

REPRODUCTION CAPABILITIES

	107-155 mil (2.72-3.94 mm)	107-250 mil (4.32-6.35 mm)
Halftones:	2-95% (120 lpi / 47 l/cm)	2-95% (100 lpi / 40 l/cm)
Fine lines:	0.003 in/0.08 mm	0.005 in/0.13 mm
Isolated dots:	0.008 in/0.20 mm diameter	0.016 in/0.41 mm diameter

PLATE PROCESSING*

Digital MGC can be processed in solvent systems using with Solvit® M100, Solvit LO or Solvit QD is recommended. Most other safe-solvent solutions may be used.

*Processing times for any particular job and process are determined by equipment and other factors; consult your MacDermid representative for help in optimizing your plate processing.

INK/SOLVENT COMPATIBILITY

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

APPLICATIONS

Digital MGC is a sheet photopolymer for use in corrugated post-print markets and other flexo markets that require a soft durometer plate.

RECOMMENDED PROCESSING CONDITIONS*

GAUGE (mil/mm)	DUROMETER (Shore A)	DESIRED RELIEF (mil/mm)	BACK EXPOSURE ^{1,2}		FACE EXPOSURE ²		WASHOUT ³	DRY TIME	POST EXPOSURE ³	DETACK ⁴
			(mJ/cm ²)	(sec)	(J/cm ²)	(min)	(sec)	(hrs)	(min)	(min)
112/2.84	38	55/1.40	750	45	5,000-7,000	300-450	400	1.5-2	8	10
125/3.18	36	60/1.52	900	55	5,000-7,000	300-450	400	1.5-2	8	10
155/3.94	34	70/1.78	900	55	5,000-7,000	300-450	450	2-2.5	8	10
250/6.35	32	125/3.78	2300	145	8,000-10,000	500-625	650	2-2.5	8	10

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

1. Lamp intensity 16 mW
2. Solvit QD washout times
3. Lamp intensity 17 mW
4. Lamp intensity 10 mW



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GRAPHICS SOLUTIONS

<http://graphics.macdermid.com>

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