

Digital MGC

Photopolymer Plates




Digital MGC
Photopolymer Printing Plates

100 LINE
85 LINE
50 LINE

5% 10% 70%

.030
.020
.010

.030
.020
.010

 **MacDermid**
GRAPHICS SOLUTIONS

The Only Capped Digital Plate for High End, Full-Color Process Printing.

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.

KEY FEATURES

- 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 plate-making processes, enabling flat top dot performance

SEGMENTS

- Corrugated 

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TECHNICAL SPECIFICATIONS

Digital MGC is available in thicknesses of 0.107" (2.72mm) - 0.250" (6.35mm) in sizes up to 50" x 80" (1,320mm x 2,032mm). Please contact your MacDermid representative for details.

REPRODUCTION CAPABILITIES

| | | |
|----------------|------------------------------|------------------------------|
| | 107-155 mil (2.72-3.94mm) | 170-250 mil (4.32-6.35mm) |
| Halftones: | 2-95% (120 lpi / 47 l/cm) | 2-95% (100 lpi / 40 l/cm) |
| Fine lines: | 0.003"/0.08mm | 0.005"/0.13mm |
| Isolated dots: | 0.008"/0.20mm | 0.016"/0.41mm diameter |

PLATE 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.

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 25% acetate. Digital MGC is not recommended for oil-based inks, hydrocarbon solvents, or inks with acetate content higher than 25%.

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 | DUROMETER | DESIRED RELIEF | BACK EXPOSURE ^{1,2} | | FACE EXPOSURE ² | | WASH OUT ³ | DRY TIME | POST EXPOSURE ³ | DETACK ⁴ |
|----------|-----------|----------------|------------------------------|-------|----------------------------|---------|-----------------------|----------|----------------------------|---------------------|
| (mil/mm) | (Shore A) | (mil/mm) | (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 | 125/3.18 | 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 16mW
2. Solvit QD washout times
3. Lamp intensity 17 mW
4. Lamp intensity 10 mW



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