

Digital MCH

Photopolymer Plates



Digital MCH
Photopolymer Printing Plates

150 LINE
175 LINE

1% 25% 50% 95%

.003
.004

12 PT. EXCELLENT INK TRANSFER
8 PT. SOLVENT OR THERMAL PROCESSING
6 PT. ULTRA-LOW DOT GAIN
2 PT. HOLDS EXTREMELY FINE TYPE

MacDermid
GRAPHICS SOLUTIONS

Low Dot Gain And Smooth Ink Laydown From One Plate.

With Digital MCH, MacDermid expands its capped plate offering by providing a new 60 durometer, capped plate for those printers seeking the best of high end, full-color process printing.





Digital MCH offers a unique micro-rough surface for excellent ink transfer, creating fine imaging detail. The innovative cap layer ensures that the plate provides the best tonal range possible. And because it is wear resistant, you are guaranteed long run durability on press.

For performance that makes your flexo printing consistent and you platemaking simple, count on the company that innovates with you in mind. MacDermid.

KEY FEATURES

- Solvent or thermal processing
- Excellent imaging with the lowest dot gain
- A balanced plate surface for low image gain and exceptional solids coverage
- Incredible durability
- Ozone resistant
- Runs clean time and time again

SEGMENTS

- Flexible Packaging 
- Tags and Labels 
- Folding Carton 
- Sacks, Paper, Multiwall 

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TECHNICAL SPECIFICATIONS

Digital MCH is available in thicknesses of 0.045" (1.12mm) -0.107" (2.71mm) and in sizes up to 52" x 80" (1,320mm x2,032mm). Please contact your MacDermid representative for details.

Digital MCH has a hardness of 60 Shore A.

REPRODUCTION CAPABILITIES

Halftones: 0.5 - 99% at 200 lpi (80 lines/cm)
Fine lines: 0.001 in. (0.025 mm) width
Isolated dots: 0.005 in. (0.127 mm diameter)

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

PLATE PROCESSING*

Digital MCH 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.

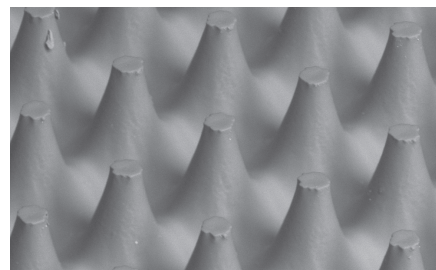
Processing times for any particular job are determined by equipment, copy requirements, and plate thickness.

INK/SOLVENT COMPATIBILITY

Digital MCH photopolymer is compatible with UV, alcohol, water, and glycol-based inks. Digital MCH is not recommended for use with oil-based inks or hydrocarbon solvents.

APPLICATIONS

Digital MCH is recommended for high quality printing on film and preprint liner, particularly for process color. Digital MCH can also be used successfully in other applications such as high quality labels and folding cartons.



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) |
| 45/1.14 | 78 | 18-22 | 1540 | 140 | 9 | 10 | 240 | 120 | 5 | 5 |
| 67/1.70 | 71 | 18-22 | 2100 | 190 | 9 | 10 | 300 | 120 | 5 | 5 |

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

1. For thermally processed plates, back exposure time is 15-30% less than for solvent processed plates

2. Lamp intensity 15 mW for top lamps, 11 mW for lower lamps

3. Solvit QD washout times



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