

MRC

Liquid Photopolymer Plates



The Perfect Solution for Corrugated Printing

MacDermid MRC liquid photopolymer is a 32 durometer (Shore A) resin designed specifically to provide thick photopolymer printing plates for the corrugated market.

Our MRC resin offers tack-free properties, excellent solids coverage and high resilience for lint-free printing.

For corrugated printing that needs to be handled just right, count on the company that innovates with you in mind. MacDermid.

TECHNICAL SPECIFICATIONS

MRC is packaged in 5-gallon (40lbs., 18kg., net wt.) plastic containers. It is also available in 2,200 lbs. (1,000 kg) totes.

Performance Specifications

Plate thickness: 0.125 - 0.280 in.

Background thickness: 0.070 - 0.180 in.

Relief Height: 0.032 - 0.125 in.

Tone range reproduction: 5 - 90%

Line screen max: 85 lpi

Plate Processing

Hardness (Shore A): 32

Viscosity, 25°C: 32,000 cps

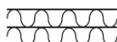
Cloud Point: < 32°F (0°C)

Freezing Point: < 32°F (0°C)

Temp to Thaw: 68°F (20°C)

SEGMENTS/APPLICATIONS

Corrugated



KEY FEATURES

- Extremely low tack plate provides clean performance on press
- Excellent durability with UV stability
- Wide imaging latitude easily images a variety of copy, including fine detail
- Well suited for in-position platemaking
- Ability to reclaim resin and use soap and water washout results in a high quality sustainable plate.

PROCESSING

MRC plates are processed the same as other MacDermid liquid photopolymer printing plates, but can be processed with an additional light finishing step to provide enhanced tack-free results. After the MRC plate has finished a ten minute post exposure step, it is placed into a dryer for 20-25 minutes at a temperature of 100°-110°F (38°-42°C).

The plate must be completely dry and warm when placed into the light-finishing unit, and must remain warm during the entire lightfinishing step. The plate is exposed in the light-finishing unit (MacDermid Germicidal Unit) for 18-22 minutes at 100°F-110°F (38°C-42°C).

The MacDermid light-finishing unit is pre-heated to ensure that plates remain warm and proper detacking occurs during exposure. When using other plate finishers, exhaust from the unit should be minimized to maintain the plate temperature, and longer processing times may be needed.* This will aid in providing the best tack-free plate surface. Please consult with your MacDermid Technical Representative for appropriate procedures.

* For example, a heated MacDermid GPX system would result in detack times in the 15-20 minute range. A non-heated UV-C system, such as a sheet photopolymer detack system, can require up to 40 minutes of detack time depending upon plate surface temperature.



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