

# LTE

## Photopolymer Plates

### The Total Solution For Thin Plate Corrugated Printing

MacDermid LTE liquid photopolymer is a 32 durometer, Shore A resin that satisfies all of the needs of high graphics/high line screen printing applications.

Our LTE resin provides printers with easy mounting due to its dyed red color, and simple, fast cleanup on press. Highly durable, it offers heat and humidity stability and is impervious to ambient UV or white fluorescent light degradation. Most importantly, LTE liquid photopolymer plates are tack-free and their high resilience provides superior quality lint-free printing.

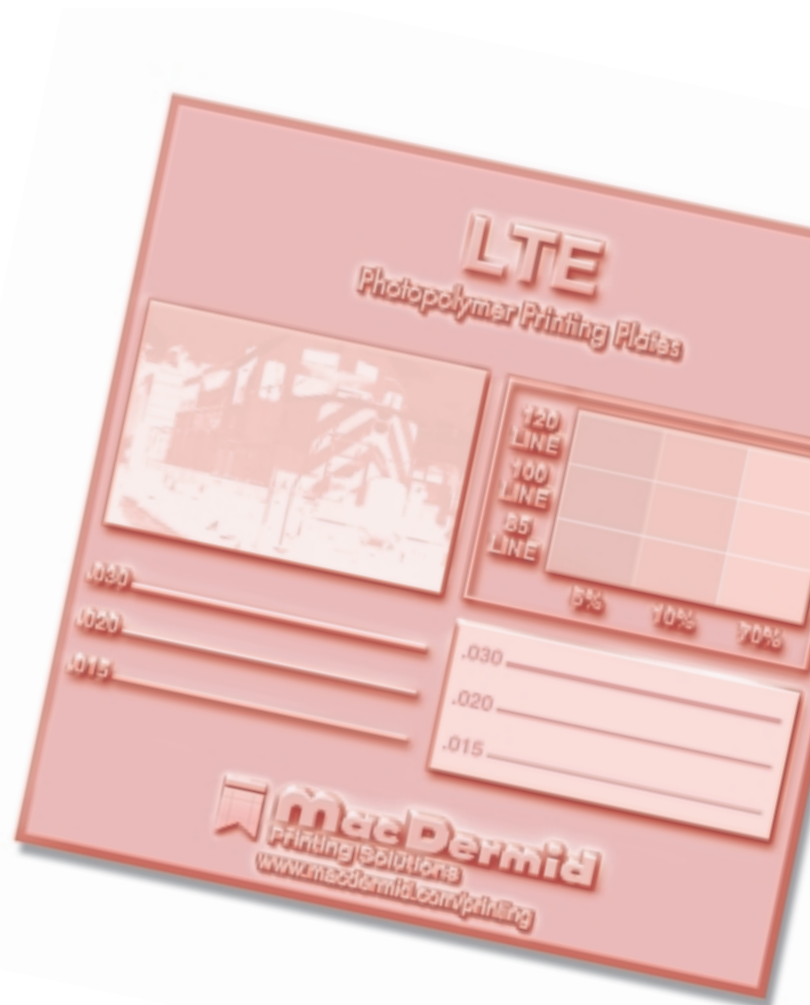
For any thin plate corrugated printing need, count on the company that says "Yes We Can." MacDermid.

#### Key Features

- Tack-free surface offers clean running on press
- Excellent durability with UV, heat and humidity stability
- Wide imaging latitude easily images a variety of copy including fine detail
- Highly resilient plate with exceptional ink transfer
- Minimize fluting by capping LTE
- Liquid photopolymer provides quality, economy and ecology

#### Segments

Corrugated



**YES WE CAN**<sup>SM</sup>

**MacDermid**  
Printing Solutions

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### Technical Specifications

LTE is packaged in 5-gallon (40 lbs., 18 kg., net wt) plastic containers. It is also available in 400 lbs. (180 kg.) drums and 2300 lbs. (1043 kg.) totes.

### Performance specifications

<b>Plate thickness</b>	0.045 - 0.125 in.
<b>Background thickness</b>	0.025 - 0.075 in.
<b>Relief height</b>	0.020 - 0.050 in.
<b>Tone range reproduction*</b>	2-95%
<b>Line screen, max*</b>	120 lpi

\*When used as a capped plate

### Plate processing

<b>Hardness</b>	32 Shore A
<b>Viscosity, POV</b>	32,000 cps/sec
<b>Appearance</b>	Red
<b>Cloud point</b>	<32°F (0°C)
<b>Freezing point</b>	<32°F (0°C)
<b>Temp. to thaw</b>	68°F (20°C)

### Applications

LTE plates are designed for high quality thin plate applications for direct printing on corrugated.

### Processing

LTE plates are processed the same as other MacDermid liquid photopolymer printing plates, but require an additional light-finishing step in order to ensure tack-free properties. After the LTE 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 light-finishing step. The plate is exposed in the light-finishing unit (MacDermid Germicidal Unit) for 18-22 minutes at 100°F (38°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 plate temperature, and longer processing times may be needed.<sup>1</sup> This will aid in providing the best tack-free plate surface. Please consult with your MacDermid Technical Representative for appropriate procedures. Light-finishing units should be turned on 20 minutes prior to use each day to ensure the unit is warmed up. If the plate surface clouds or crazes after light-finishing, it may indicate that the plate has been exposed for too long. Reduce the amount of time in the light-finishing step. After completion of light-finishing, LTE plates are ready for the press.

<sup>1</sup>Exhaust control may not be possible on non-MacDermid light-finishers. Check with the equipment manufacture. For customers using a MacDermid sheet photopolymer detack unit, the warm plate should be detacked for 35-45 minutes (bulb intensity should be > 600mj)

**YES WE CAN**<sup>SM</sup>

It takes more than innovative, high performance products and superior technical service to help our customers compete and win in today's global marketplace. It takes a total commitment to understanding their needs and the ability to provide the right solutions—every time.

When success is your only goal, trust the company that says "Yes We Can."



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