

# LTL

## Photopolymer Plates

### The Perfect Solution For Corrugated Printing

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

Our LTL resin offers tack-free properties, excellent solids coverage and high resilience for lint-free printing. MacDermid LTL resins are dyed red to improve the contrast so that mounting is easier and provides for easy cleanup on press, saving you precious time and money.

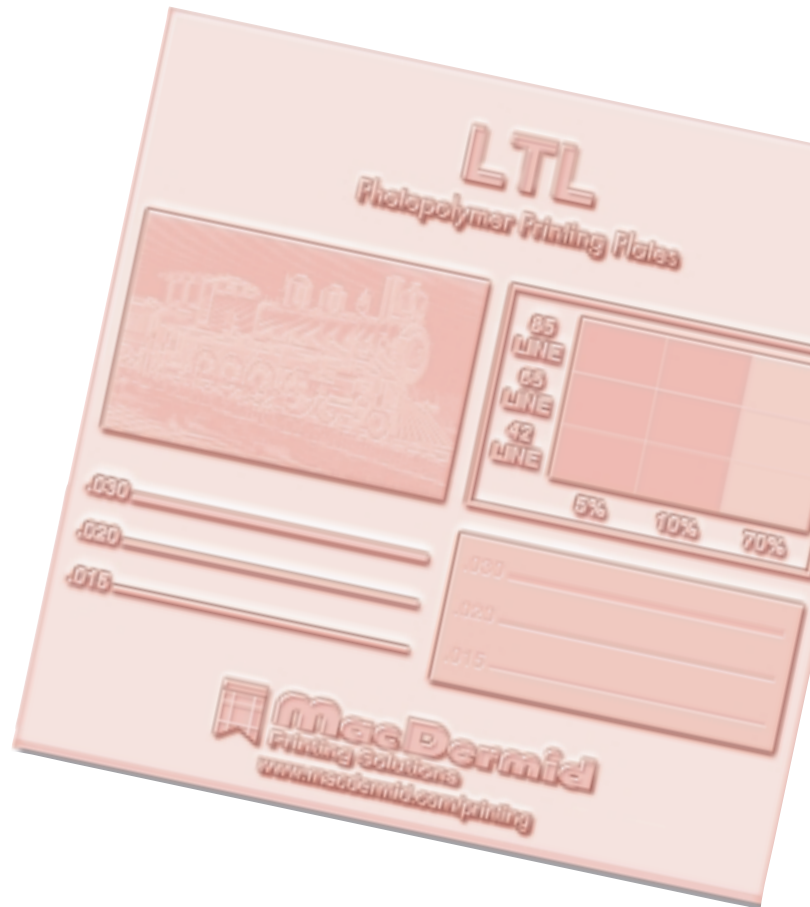
For corrugated printing that needs to be handled just right, count on the company that says "Yes We Can." MacDermid.

#### Key Features

- Extremely low tack plate gives 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 LTL

#### Segments

Corrugated



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

**MacDermid**  
Printing Solutions

## Photopolymer Plates

### Technical Specifications

LTL 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>	0.0125 - 0.250 in.
<b>Background thickness</b>	0.080 - 0.125 in.
<b>Relief height</b>	0.045 - 0.125 in.
<b>Tone range reproduction*</b>	2-95%
<b>Line screen, max*</b>	100 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

LTL plates are designed for high-quality thick plate applications for direct printing on corrugated.

### Processing

LTL plates are processed the same as other MacDermid liquid photopolymer printing plates, but require an additional light-finishing step in order to ensure the tack-free properties. After the LTL 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, LTL 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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