

# LTS

## Liquid Photopolymer



## The Perfect Solution for Corrugated Printing

MacDermid LTS liquid photopolymer is a 25 durometer (Shore A) resin designed specifically to provide thick photopolymer printing plates for the corrugated environment. LTS resin has tack-free properties for excellent solids coverage, high resilience for lint-free printing and easy clean-up on press. LTS is dyed red to improve the contrast of the plate surface for assistance in mounting.

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

### TECHNICAL SPECIFICATIONS

LTS is packaged in 5-gallon (40 lbs., 18 kg., net wt.) containers. Totes are also available.

#### Performance Specifications

Plate thickness: 0.125 - 0.280 in.

Background thickness: 0.080 - 0.160 in.

Relief Height: 0.040 - 0.125 in.

Tone range reproduction: 2 - 95%\*

Line screen max: 100 lpi\*

\*When used as a capped plate

#### Physical Properties

Hardness (Shore A): 25

Appearance: Red

Cloud Point: < 32°F (0°C)

Freezing Point: < 32°F (0°C)

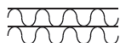
Temp to Thaw: 68°F (20°C)

Substrate Type: M Strate, M Strate AB

Washout Chemistry: M Clean Detergent

### SEGMENTS/APPLICATIONS

Corrugated



### KEY FEATURES

- Extremely low tack plate provides clean performance 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
- Option to cap for reduced fluting
- Well suited for in-position platemaking
- Ability to reclaim resin and use soap and water washout results in a high quality, sustainable plate
- Optimized durometer for use for printing on recycled board, or board with thinner liner

### PROCESSING

LTS 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 LTS 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-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.<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, LTS 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 detach unit, the warm plate should be detacked for 35-45 minutes (bulb intensity should be > 600mj)



**FOR MORE INFORMATION, PLEASE CONTACT:**  
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