



# PERFORMANCE GUIDE

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## LMC1810 MACcopy® Matte Clear Laser

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### Product Description:

A 2 mil laser printable top coated matte clear polyester coated with permanent acrylic adhesive. Designed for excellent image quality and durability in demanding applications. Processed primarily through desktop laser printers and photocopiers.

### Face Description:

2 mil matte clear top coated polyester specially engineered to provide an excellent laser printable surface.

Physical Properties Without Adhesive		
Test Property	Typical Values	Test Method
Caliper, inches	0.0020 +/- 10%	ASTM D-2103
Tensile, lbs./in.	42 MD 52 CD	ASTM D-882
Elongation at Break, %	75 MD 110 CD	ASTM D-882
Smoothness	70	Sheffield Units

### Adhesive Description

MP-910 adhesive is a patented formula designed to eliminate virtually all sheet edge adhesive bleed and eliminate the need to strip a matrix around the edge. It is permanent acrylic emulsion adhesive, characterized by good ultimate adhesion to a wide variety of substrates.

Physical Properties of Adhesive		
Test Property	Typical Values	Test Method
Thickness, inches	0.0007 +/- 10%	
Peel Adhesion, lbs./in.	1.6	PSTC-101F (30 min. applied)
Temperature Ranges		
Minimum Application	+25°F (-4°C)	CTM #45 Curwood Polyester Film Dry Surface
Service Ranges	-75°F to +200°F (-60°C to +93°C)	

### Liner Description:

A clay coated kraft lay-flat liner specially selected for use in toner fusion and other non-impact printer roll-to-sheet applications.

Physical Properties of Liner		
Test Property	Typical Values	Test Method
Caliper, inches	0.0034 +/- 10%	TAPPI T-411
Basis Weight, lbs. (24" x 36"/500 sheets)	47 +/- 10%	TAPPI T-410

### Shelf Life:

Unconverted Product - one year when stored at 72°F and 50% R.H.

### APPLICATIONS AND USES

Typical used for durable address labels and a wide variety of demanding indoor and outdoor labeling applications. Polyester labels offer excellent resistance to heat, humidity, UV light and abrasion.

MACcopy Matte Clear Laser is designed to run smoothly in a variety of desktop laser printers from manufacturers such as Hewlett-Packard® and Lexmark®. Since the design and grain direction of the form can have a direct impact on the product's performance, MACTac highly recommends sufficient testing on the material in its intended design prior to use. MACcopy Matte Clear Laser performs best when the material is processed through the printer with the grain direction in the same direction as the paper path.

### CONVERTING TIPS

**Environment:** Laser stocks are recommended to be converted under climate-controlled conditions (72°F/50% RH). Protect all unused roll material by wrapping in protective stretch wrap. Do not store directly on concrete floors.

**Label Design:** Many printer manufacturers have specific guidelines for label form designs, which may include and are not limited to, the amount of edge matrix removed, perforations, maximum caliper, etc. It is recommended the label design be within the printer manufacturer specifications and adequately tested before use.

**Printing:** The compatibility of preprint flexo inks with toner should be fully evaluated and the following should be avoided: large areas of ink, flood coating, over-drying the web, and powdering sheets. Use inks designed to process through toner fusion printers and accept toner.

**Packaging:** Protect material from moisture and physical damage by shrink wrapping no more than 200 sheets between two sheets of sturdy chipboard or corrugated paperboard that are equal to or greater than the size of the pressure sensitive form.

CALL 1-800-548-3456 for additional product information

**Die Cutting:** Use traditional rotary equipment, avoid flat bed dies and check that die cuts are not too deep to prevent feeding problems.

## END-USE TIPS

**Storage:** Store at 72°F and 50% RH in protective wrappings and rewrap partially used reams. Do not stack cartons more than its Edge Crush Test (ECT) rating or store directly on concrete floors. Condition label stock for at least 72 hours within the printing environment prior to usage.

**Maintenance:** It is recommended the printer(s) be serviced periodically to ensure best performance.

**Usage:** Typically, printer manufacturers offer specific guidelines for the use of label media. Use the printer manufacturer's recommended tray(s) for label media and do not overfill the tray. In addition, some printer driver software contains selections that may optimize a label media product's performance. Do not fan stacks prior to loading, and do not attempt to load damaged sheets.

## Lay Flat Guarantee

Guaranteed to exhibit layflat properties of no greater than +/- 1/2" when evaluating an 8-1/2" x 11" sheet on a flat surface, face up orientation in a climate controlled (72° F/ 50% RH) environment. It is recommended that this material be produced using 6" O. D. core to prevent core related roll set curl. Any products supplied on or rewound on other than 6" cores do not carry the layflat guarantee. Allow the material to acclimate to the environment for 72 hours before printing and converting.

## Regulatory Information

This product complies with CONEG regulations. All MACTac Roll Label Products meet the requirements of the Clean Air Act of 1990.

*The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, or regulatory compliances, please contact your MACTac sales representative to discuss your requirements for recommendations. If this is a printed Performance Guide, it is an uncontrolled document. Please check the MACTac website for the latest, most up-to-date version at [www.mactac.com](http://www.mactac.com).*

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