PERFORMANCE GUIDE
Represents Typical Values Only

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NX1812 MACcopy® XTRA

Product Description:
A bright white, medium weight, versatile stock designed for excellent image quality processing in most medium, and some high speed and desk top printers, as well as photocopiers. Also capable of ink jet printing. Roll-to-sheet applications.

Face Description:
A 50# facestock specially engineered for laser and ink jet printing.

Physical Properties Without Adhesive		
Test Property	**Typical Values**	**Test Method**
Tear, grams	52 MD 64 CD	TAPPI T-414
Tensile, lbs./in.	32 MD 12 CD	TAPPI T-494
Caliper, inches	0.0040 +/- 10%	TAPPI T-411
Basis Weight, lbs. (25" x 38"/500)	52+/- 10%	TAPPI T-410
Opacity, %	91.4	TAPPI T-425
Brightness, %	92	TAPPI T-452
Smoothness, Sheffield Units	110	TAPPI T-538

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 adhesion to a wide variety of substrates.

Physical Properties of Adhesive		
Test Property	**Typical Values**	**Test Method**
Peel Adhesion, lbs./in.	1.7 or paper tear	PSTC-2 (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 semi-bleached 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	0.0032+/- 10%	TAPPI T-411
Basis Weight, lbs. (24" x 36"/500 sheets)	50 +/- 10%	TAPPI T-410

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

APPLICATIONS AND USES

NX1812 is used in a wide range of label applications including asset and inventory tags, pricing, order picking, work-in-process, shipping and address labels, retail product and audio/visual cassette and CD/R labels.

MACcopy XTRA Laser is designed to run smoothly in a variety of medium, high speed and continuous feed toner fusion printers, as well as some desktop laser printers and photocopiers were caliper/basis weight constraints are not a concern. Also capable of ink jet printing. 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.

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.

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

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. **Bulk packaging is not recommended.**

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 +/- ½" 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

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