

# PermaLam Laminating Films



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## PermaLam Process

The PermaLam Process is an extremely important development that will be useful to the foil fusing industry.

Using the PermaLam Process, foil text and/or graphics can be applied as a separate layer over complex background graphics without the need for dies. It works with a very wide range of stocks that would normally be unsuitable for foil fusing.

Background images are printed on paper using offset, ink jet or toner. The background must NOT include foil image areas or cutouts for foil image areas. After the background has been printed, the sheets are laminated using one of four types of special PermaLam laminating films (see additional information below).

Sheets are then run through Foil-Tech or FT-10 equipment where foil is fused to the toner image areas on top of the laminating film. This process is ideal for designers, small quantity book covers, greeting cards, business cards, tickets, post cards, & many other products which combine background text & graphics with foreground foil image areas.



## PermaLam Laminating Films

There are four types of laminating film that have been specifically developed to work with the new PermaLam Process.

Matte, gloss and soft touch finish, 1.2 mil "PermaLam" films provide excellent toner/foil adhesion and good scratch resistance. PermaLam films are ideal for book covers, business cards, greeting cards, post cards, box covers and many other applications.

A 1.5 mil thick, gloss finish "Scratch Off Lam" is also available. Scratch Off Lam allows foil to be fused over underlying text and/or graphics. Foil fused over Scratch Off Lam transfers cleanly and bonds well to the film.

The toner/foil applied to the Scratch Off Lam have excellent adhesion characteristics, however the toner/foil can be scratched off using a fingernail, coin, etc., leaving the surface free of the fused toner/foil topcoat.

PermaLam laminating films have excellent adhesion over a wide range of surfaces and most importantly, over most inks and toners.

They also allow the laminated sheets to be run back through most laser printers. This requires a special heat tolerance and a surface chemistry/finish that will allow toner to bond to the laminated film.

The surface chemistry/finish of the film must be "non-reactive" to the foil fusing process. This assures that the film will not be damaged by the fusing process and that foil will stick to the toner on the laminating film without sticking to the laminating film itself.

In most cases, the adhesion needs to be as permanent as possible and in special applications, the toner/foil needs to have good adhesion AND excellent scratch off characteristics. Currently, all three types of PermaLam laminating film are available in 30cms (12") wide by 150m (500') rolls on 25.4mm (1") cores. Gloss, matte and soft touch PermaLam films are also available on 76.2mm (3") cores.



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## Important Information

- Read and understand all PermaLam Process information below
- Label PermaLam laminating films carefully.
- Do NOT mix PermaLam laminating films with other laminating films as this may cause significant problems with printers, fusers and finished product quality.
- Follow storage and printer settings information.
- **Storage:**  
Gloss, matte and soft touch PermaLam laminating films are specifically designed to minimize single or two sided laminated paper curling. Both laminating films can absorb moisture. It is extremely important that PermaLam laminating films be kept as dry as possible. PermaLam laminating films should remain wrapped to protect against moisture absorption. Store wrapped rolls in a cool, dry environment. PermaLam laminating film rolls that have not been properly stored and/or have absorbed moisture will have their performance affected.
- **Printer Settings for Over Print:**  
Printer settings are normally adjusted for paper thickness . Toner density settings must be adjusted on different jobs as required. You may be able to see through the toner on top of the PermaLam laminating films and this is normal. Too much toner can create problems. You will need to adjust settings based on your printer to get the best results. Test foil adhesion on sample pieces before running jobs, especially when first using PermaLam laminating films.
- **Note:**  
While gloss, matte and soft touch PermaLam films provide excellent foil adhesion, the matte PermaLam film offers the best foil adhesion/scratch resistance characteristics.

## **Disclaimer**

- Caslon Limited has tested the PermaLam Process using a 9300 and a 9600 Okidata printer. To the best of our knowledge, running this process using PermaLam laminating films, has not caused any problems with these printers or affected their normal operation.
- Different printers use different mechanical and electronic configurations with different toners, fusing temperatures, etc.. As a result, it is impossible for Caslon Limited to determine the suitability of any given printer for short or long term use with the PermaLam Process.
- Caslon Limited accepts no responsibility or liability for damage to any printer that is, or is thought to be, damaged while using the PermaLam Process.
- Caslon Limited accepts no responsibility or liability for lost income, replacement parts, components, consumables, repairs or replacement of any printer that is, or is thought to be, damaged as a result of using the PermaLam Process and/or PermaLam laminating films.
- Further, Caslon Limited does not warranty the quality, consistency or suitability of any product produced using the PermaLam Process or PermaLam laminating films.
- Customers are solely responsible to determine if, and how, they wish to use the PermaLam Process and/or PermaLam laminating films with their printers.
- Customers who purchase and/or use the PermaLam Process and/or PermaLam laminating films accept all potential liability for use of the process and materials, and for the suitability of the products produced with the process and materials.
- Distribution of information advertising the PermaLam Process and/or PermaLam laminating films, providing technical information concerning the PermaLam Process and/or PermaLam laminating films, and/or providing samples produced using the PermaLam Process and/or PermaLam laminating films must not be considered a warranty or endorsement of the suitability of the process and/or materials and/or products produced by same.
- Customers who wish to use the PermaLam Process may wish to contact their printer manufacturer to see if the manufacturer can make any recommendations concerning their printer's suitability.