

**Film**

Warm (85-95 °C)
<b>Cold (&lt; 40 °C)</b>
Hot (105-130 °C)

**Océ | FIN964 Cold Economy Lam. Film Matt 80 µm****Product information****Product Description**

FIN964 Océ Cold Economy Lamination Film Matt 80 µm is a monomeric plasticized, calendered laminate film. It is a protective overlaminating film for digitally printed images, followed by application on flat surfaces. The face film is glossy 80 micron transparent, calendered vinyl. The adhesive is permanent clear pressure sensitive, acrylic based. The backing paper is one side coated bleached kraft paper, 87 g/m<sup>2</sup>.

**Physical Properties**

<b>Thickness [µm]</b>	<b>Facefilm</b>	80	ISO 534
	<b>Facefilm+ adhesive</b>	110	ISO 534
<b>Gloss</b>		10% @ 85°	ISO 2813
<b>Adhesion initial [N/m]</b>		550	FINAT FTM-1 Stainless steel
<b>Adhesion ultimate [N/m]</b>		900	FINAT FTM-1 Stainless steel

**Applications/ Features**

Inkjet printed images (photo papers, polyester, vinyl)

Adds attractive uniform finish to a print  
Protects against UV radiation and abrasion  
Preferably for indoor use  
Short life outdoor use: up to 2 years

**Article numbers**

Art. Nr.	Length	Width	3"Core
970 01 120	50 m	1040 mm	
970 01 121	50 m	1067 mm	
970 01 122	50 m	1372 mm	
970 01 123	50 m	1550 mm	

**Storage Conditions**

Shelf life: 2 years  
Temperature 23 °C, Relative Humidity 50-55%

**Environment, Health & Safety**

No Material Safety Data Sheet required.

**Temperature**

Service temperature -40°C to +80°C



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## Processing Guidelines

### Lamination guidelines

Speed (m/min): 0-2,5

Temperature (°C): 20-35

Pressure (PSI): 50-70

For specific settings on the laminator, please consult the technical manual which goes with the laminator from the original supplier.

Double-sided lamination in one step is possible; however the laminator should be equipped to handle 2 release liners

### Application guidelines

The inside of the roll is the adhesive side.

The film is designed for cold (pressure sensitive) lamination.

Always set the lamination tension of the overlamine and the printed substrate in such a way that they are laminated flat but without stretching. Improper tension adjustment is the most important cause for wrinkles and possible delaminating. This is caused by the tension difference between the laminate and the print (medium) to be laminated.

Please note that increased roller temperatures in combination with higher winding tension can lead to unwanted elongation of the film and image. Winding tension therefore should be carefully monitored and kept at the appropriate level.

## Durability

The outdoor durability is up to 2 years. This is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, outdoor performance will be decreased

The durability of a printed image always depends on the toner/ink, film, processing and exposure conditions.

The specified outdoor durability of up to 2 years is applicable only to the laminating film (not to the image that is laminated).

