

Technical Data Sheet

LF 3900 series

LF3994-LF3998-LF3999

IMAGin

The IMAGin products is a series of self-adhesives especially designed for overlaminating and protecting large and medium size digital prints.

PRODUCT DESCRIPTION

- LF3900 are a series of soft 80 µm PVC coated on one side with a clear acrylic pressure sensitive adhesive. The adhesive is protected by a white, easy to remove paper liner.
- LF 3900 series provide different finishes to the prints as well as protection against potential damages:
 - LF3994 : clear satin finish
 - LF3998 : clear matt finish
 - LF3999 : clear glossy finish

LF3900 laminating films

- retard colour fade caused by ultraviolet (U.V.) light exposure
- do not influence the pH level of the substrate to which it is applied.

PHYSICAL PROPERTIES

	<u>Typical Values</u>	<u>Test Method</u>
<u>Adhesive data, 23°C</u>		
Quick Tack on glass (N/25 mm)	6	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	3	FTM 1
- after 24 hours	3.5	FTM 1
Shear (hours) 1kg- 25x25 mm	>100	FTM8
Dimentional stability, % shrinkage, 48h at 70°C on aluminium	<0.2	FTM 14 Sample mounted on aluminium
Flammability	Self-extinguishing	
<u>Release liner</u>		
White kraft paper (g/m ²)	140	ISO 536
	100	
<u>Thickness</u>		
Film + adhesive (µm)	105	ISO 534 (ASTM D 645)

HEAT RESISTANCE

Application temperature range : + 0°C to + 40°C

End-use temperature range : - 30°C to + 60°C

For temperatures outside those quoted above, please consult with MACtac.

CHEMICAL RESISTANCE

Resistant to short periods of immersion in water and short contact with detergents, alcohol and some aliphatic solvents. Not recommended for contact with ketones, esters, aromatic solvents and chlorinated hydrocarbons.

For further technical advice, please consult with MACtac.

SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

DURABILITY

LF3900 will give satisfactory performance up to 5 years of outdoor exposure.

The durability does not relate to the image protected but only to the laminating film.

Indoor exposure will increase the durability values of the laminating film.

Note : *These end-use life estimates are based on accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates. Exposure to severe humidity and ultraviolet light, as in southern European countries, and also in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude and south-facing exposure.*

RECOMMENDATIONS

- Where exposure to chemicals, solvents or high pressure water hoses is envisaged, it is recommended to seal the edges of the prints with varnish or silicone in order to avoid penetration of these liquids.
- Where possible, always test the proposed construction under actual application and end-use conditions because a 100% multi-purpose adhesive for all substrates does not exist.

IMPORTANT NOTICE

All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.

Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

All specifications are subject to change without prior notice.