

# LF 3900 series

## 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:
  - 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.
- protect the print against abrasion, fingerprints etc
- are designed for high profile applications over *flat to slightly curved (convex)* surfaces.

**PHYSICAL PROPERTIES**

	<u>Typical Values</u>	<u>Test Method</u>
<b><u>Adhesive data, 23°C</u></b>		
Quick Tack on glass (N/25 mm)	6	FTM 9
Peel 180° on glass (N/25 mm)	3	FTM 1
- after 20 minutes	3.5	FTM 1
- after 24 hours		
Shear (hours) 1kg- 25x25 mm	>100	FTM8
Dimensional stability, % shrinkage, 48h at 70°C on aluminium	<0.2	FTM 14
		Sample mounted on aluminium
Flammability	Self-extinguishing	

### **Release liner**

White kraft paper (g/m<sup>2</sup>) 140 ISO 536

### **Thickness**

Film + adhesive (µm) 105 ISO 534  
(ASTM D 645)

### **HEAT RESISTANCE**

Application temperature range : + 5°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.

### **EXPECTED DURABILITY**

The expected vertical outdoor durability of the unprocessed product in Central Europe (Zone 1) is up to 5 years. This information is based on successful real life experience and artificial aging according to ISO4892-3.

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

**Note** : *Exposure to severe temperatures, ultra-violet light as well as conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure. No durability warranty is given for horizontal exposure. For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACtac print media and laminates".*

### **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.*