

# MACtac®

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Your stockist

2660 FL - 03.08

MACmark®

## Product Overview

Films  
that last longer

MAClite  
**5700**

MACal®  
Glass Decor

MACal®  
**9800** PRO

MACal®  
**8900** PRO

MACmask

MACfleet  
**6500**

MACal®  
**8200** PRO

MACal®  
**8400**

MACsoft®  
**900**

MACal®  
**9800** BF

MACal®  
**8000**

MACal®  
**8300** PRO

MACal®  
**9700** PRO

MACphospho  
**100**



A Bemis Company

# Take a Closer Look at our Strengths



## Our Potential



*Pressure sensitive adhesives (PSA) offer exciting potential for new processes and ideas. Exploring this potential is a big part of our job at MACTac Graphic and Decorative Products, a division of MACTac®, a leader in pressure sensitive solutions with 40 years material experience for labels, decoration, signage and highly technical applications in a great many industries. Adhesive technology can lead to the creation of innovative products especially in the visual communication and building decoration market. That is why PSA are quickly becoming part of our every-day lives.*

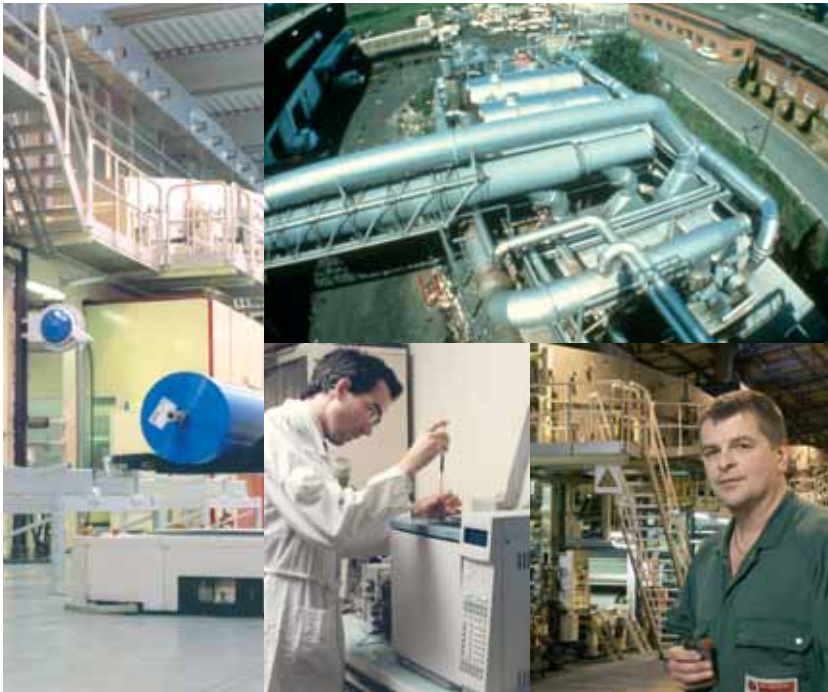
## Our Quality Approach



*MACTac products are used to promote famous brands worldwide such as Renault, Coca Cola, Nestlé, Seiko, L'Oréal, Walt Disney... But take a closer look and you will see proof of quality in our ongoing commitment to ensure the highest level of quality and consistency from concept to delivery.*

**PERFORMANCE GRAPHICS**  
IMAGin® • MACmark® • PERMACOLOR® • MACscreen®

## Our Product Design And Development



*We make a major investment in research and development every year and reap significant dividends in product innovation, design, development and quality enhancement as a result. This is a comprehensive effort to create new products and improve existing products which has resulted in many innovations on the signage market a.o. mobile advertising, backlit advertising, floor graphics and retail outlets decoration.*

*Our experts in adhesives, release systems and top-coating technologies work closely with our environmental staff to ensure that the best products for business are also the best choices for the environment. MACTac® is an industry leader in solvent adhesive recovery.*

## Our Global Presence



*Along with its strong presence and base in Europe, MACTac® serves the visual communication market with manufacturing and distribution centers throughout Europe, Asia, Oceania, The Middle East, Africa, North America and Latin America.*

*MACTac's Graphic and Decorative Products Division reflects the global strength and innovation of its parent company, Bemis® Company, Inc., the largest producer of flexible packaging in North America with manufacturing facilities in Europe. Along with its 140-year history, the company's leadership position is established due to its strong technical foundation in polymer chemistry, film extrusion, coating, laminating and printing. The Minneapolis-based company employs over 16,000 people and has total annual sales of over \$ 3,6 billion.*

# Ultra-Conformable Film

# MACfleet 6500

MACfleet is a new generation of self-adhesive vinyl. This new soft laminated film has been especially developed to provide an **excellent level of conformability**, superior opacity as well high dimensional stability. It makes MACfleet the ideal film to decorate fleet and public transport vehicles with irregular, curved or difficult surfaces. Based on a technological breakthrough MACfleet allows you to give the same 8 to 10 years guarantee as high-end cast films at a much lower cost.



## CHARACTERISTICS

- Soft laminated PVC film, 55 µm, cadmium free.
- Exceptional conformability.
- No stress whitening (colour change) of the stretched film.
- No-Memory effect.
- Long durability.
- Flexibility as good as the best cast films.
- Coated with a specially formulated acrylic adhesive giving first class dimensional stability and long term durability.
- Backing: white kraft paper with red squared backprinting.
- Trouble-free computer cutting.

## TYPICAL USES

- High performance on flat, curved, riveted or corrugated surfaces.
- Fleet decoration (cars, motorcycles, trucks, caravans).
- Container and tanker identification.

## PRESENTATION

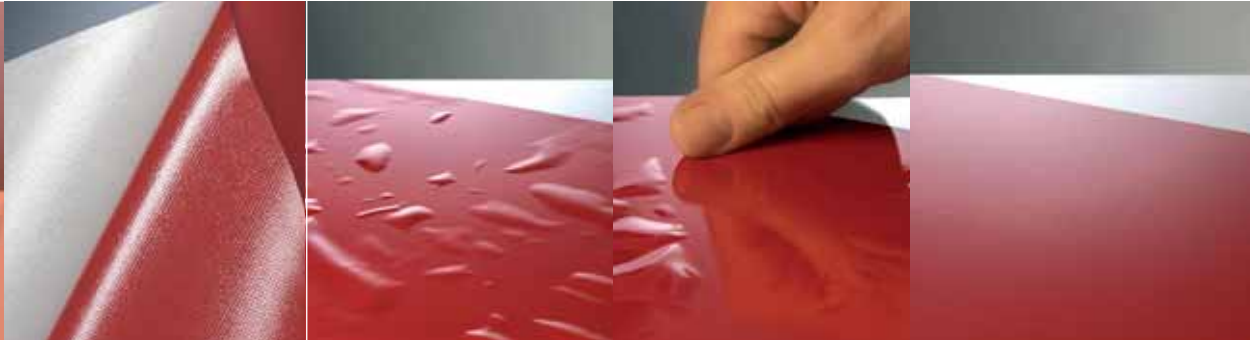
- 40 gloss colours.
- Colour card available on request.
- Rolls: 1,23m x 25m (colours) 50m (white, black & clear).



# Bubble Free Films

# MACal<sup>®</sup> 9800<sup>BF</sup>

Up to 50% application time saving! The new MACtac, revolutionary discovery\* makes it possible to offer you a film which is easy to apply and to reposition. Time saved applying the film will therefore save money. The siliconised liner has been formed to obtain a three-dimensional microstructure in the adhesive. The adhesive microstructure has been formed to allow easy elimination of bubbles and wrinkles



## CHARACTERISTICS

- Polymeric calendered vinyl, 66 µm, cadmium-free.
- The recognized MACal 9800 BF film quality ensures easy plotter converting and weeding XXL graphics, an excellent opacity and a 7 to 8 years outdoor durability.
- Up to 50 % application time saving
  - air bubbles and wrinkles are easily pushed out thanks to the microstructure of the adhesive layer
  - slow adhesion build up makes the film easy to reposition.
- Backing: white kraft paper with red squared backprinting.



## TYPICAL USES

- MACal 9800 BF is especially suitable for
  - large window graphics (wet application method no longer required).
  - large fleet graphics on flat or slightly curved surfaces.
  - large interior or exterior signs.

## PRESENTATION

- 20 gloss and 2 matt colours.
- Colour card available on request.
- Rolls: 1,23m x 50m.

\* Patent pending



# High Performance Polymeric Vinyl

# MACal<sup>®</sup> 9800<sup>PRO</sup>

A high quality MACtac films designed for high-performance permanent marking applications requiring a 7-8 years outdoor life. The high-gloss facestock is very flexible and provides ideal conformability over simple contours. The product features a high-performance permanent acrylic adhesive and a white Kraft liner for stability and lay-flat. MACal 9800 Pro is an outstanding choice for fleet marking, equipment identification, window graphics and logos.



## CHARACTERISTICS

- Soft stabilized polymeric PVC film, 66 µm, cadmium free.
- Coated with a specially formulated acrylic adhesive giving first class dimensional stability and long term durability.
- Excellent opacity.
- Good conformability over simple contours.
- Backing: white kraft paper with blue squared backprinting designed to facilitate positioning.
- Trouble-free computer cutting even for small letters.
- Super-fast stripping and weeding giving maximum productivity.

## TYPICAL USES

- Permanent interior and exterior marking applications which have a long-term life requirement.
- Decorative and vehicle striping.
- Fleet markings.
- Window graphics.
- Decorative panels.

## PRESENTATION

- 98 gloss and 2 matt colours
- MACal 9800 Pro/SL are very intense and vibrant colours.
- Colour card available on request.
- Rolls of 1,00m – 1,23m – 1,524m x 50m.
- White films with grey «Contrast» backing to improve the contrast with the film colour.



Intermediate

## Monomeric Vinyl



A superior intermediate film with up to 3-4 years outdoor life. It features an acrylic, semi-permanent adhesive that allows the removal of the vinyl without leaving adhesive residue from common surfaces for up to 2 years after application.



#### CHARACTERISTICS

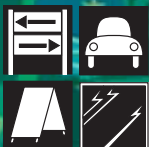
- Soft vinyl film, 70 µm, cadmium free.
- Coated with a semi-permanent acrylic adhesive.
- No adhesive residue up to 2 years after application.
- Shrink free marking film.
- Backing: white kraft paper with green squared backprinting designed to facilitate positioning.
- Easy application.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

#### TYPICAL USES

- Promotional markings for indoor and outdoor application onto glass (windows), metallic substrates or plastics (exhibition stands).
- Promotional launches.
- Exhibition displays, signs...
- Window graphics.
- Vehicle marking, etc...

#### PRESENTATION

- 32 gloss and 52 matt colours.
- Colour card available on request.
- Rolls of 1,00m - 1,23m x 50m.
- Rolls of 1,524m x 50m (white and black).
- White films with grey "Contrast" backing to improve the contrast with the film colour.



## Intermediate Monomeric Vinyl

# MACCOL<sup>®</sup> 8300<sub>PRO</sub>

*An intermediate film designed to offer 4-5 years outdoor durability. It is coated with a permanent solvent based acrylic adhesive and offers excellent dimensional stability and cutting and weeding properties.*



### CHARACTERISTICS

- Calendered vinyl film, 70 µm, cadmium free.
- Excellent dimensional stability.
- Backing: white kraft paper with orange squared backprinting designed to facilitate positioning.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

### TYPICAL USES

- Promotional markings for indoor and outdoor application onto glass (windows), metallic substrates or plastics (exhibition stands).
- Exhibition displays, signs...
- Window graphics.
- Vehicle marking, etc...

### PRESENTATION

- 52 gloss and 2 matt colours.
- Colour card available on request.
- Rolls of 1,23m and 1,524m x 50m.
- White films with grey «Contrast» backing to improve the contrast with the film colour.



## Intermediate Monomeric Vinyl

# MACal<sup>®</sup> 8200<sup>PRO</sup>

A medium term economic film designed to offer 3-4 years outdoor durability.



### CHARACTERISTICS

- Calendered vinyl film, 75 µm, cadmium free.
- Excellent dimensional stability.
- Backing: white kraft paper with grey squared backprinting.
- MACal 8200 Pro have been specially developed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

### TYPICAL USE

MACal 8200 Pro is a medium term marking film designed for outdoor applications (vehicle marking, window graphics, signs...) and for indoor applications (exhibition stands).

### PRESENTATION

- 50 gloss and 50 matt colours.
- Colour card available on request.
- Rolls of 1,00m - 1,23m x 50m.
- White films with grey «Contrast» backing.



## High Performance Polymeric Translucent Vinyl

# MACCOL<sup>®</sup> 9700<sup>PRO</sup>

*Translucent when backlit and opaque when not illuminated.  
High performance 5-7 years outdoor films, manufactured in such a way as to guarantee uniform colour reproduction. The soft film is coated with a durable permanent acrylic adhesive with excellent wet-out characteristics for clarity.*



### CHARACTERISTICS

- Soft stabilized polymeric vinyl film, 80 µm, cadmium free.
- Reliable colour uniformity and stability.
- First class dimensional stability.
- Backing: white kraft paper with blue squared backprinting designed to facilitate positioning.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

### TYPICAL USES

Decoration and identification of internally illuminated signs made from glass, acrylic, reinforced polyester cloth, etc...  
Suitable for outdoor and indoor applications, windows graphics.

### PRESENTATION

- 31 matt colours, designed to prevent light reflection; 2 light diffusers and 1 light stop.
- Colour card available on request.
- Rolls of 1,23m x 50m.

# MACal<sup>®</sup> Glass Decor

## Simulated Etched Glass Films

*A translucent, high-performance indoor and outdoor film, ideal for producing decoration of windows and glass for an etched, frosted or sandblasted effect.*



### CHARACTERISTICS

- Translucent stabilised vinyl film, 80 µm, cadmium free.
- Reliable uniformity and stability of the simulated etched glass effect.
- First class dimensional stability.
- Suitable for outdoor and indoor applications.
- Backing: white kraft paper with squared red backprinting designed to facilitate positioning.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

### TYPICAL USES

- MACal Glass Decor 700 is used as:
- decorative window film (restaurants, museums, showrooms,...)
  - privacy film (banks, offices,...)

### PRESENTATION

- 7 matt finishes: frosted or dusted.
- Colour card available on request.
- Rolls of 1,23m x 50m.



# Reflective Films

# MAClite 5700

MAClite 5700 is a flexible reflective film (Engineering Grade) providing wide-angle reflectivity of incident light and giving excellent night and day visibility.

The film consists of a layer of microscopic glass beads of high optical quality embedded in a coloured film and react as lenses. A metallized back provides the mirror surface for reflection.

This highly flexible film can be applied on flat, curved or corrugated surfaces and on rivets. It can be screenprinted or used for computer aided signage.



## CHARACTERISTICS

- Engineered grade reflective film, 115 µm.
- Excellent reflectivity.
- Highly conformable film.
- High quality white solvent based permanent adhesive.
- High stable 150 g sqm white polyethylene coated paper.

## TYPICAL USES

- Marking film designed for 24H a day eye-catching decoration and identification.
- Vehicle marking or decoration.
- Safety signs.

## PRESENTATION

- 8 gloss colours.
- Colour card available on request.
- Rolls: black: 1.22m x 20m
- Other colours: 1.22m x 45m.



# Fluorescent Decorative Vinyl Films (short life)

# MACCOL® 8000

Short-term promotional fluorescent vinyl designed for 3-6 months outdoor use. Available in 5 bright fluorescent colours, the film is coated with a semi-permanent acrylic adhesive designed for clean removability. Excellent short-term promotional campaigns for eye-catching applications on windows, displays panels, exhibiting panels.

### CHARACTERISTICS

- Soft vinyl film, 110 µm, cadmium free.
- Highly visible films in all daylight conditions.
- First class dimensional stability
- Semi-permanent acrylic adhesive.
- Repositionable during initial application.
- Backing: white kraft paper with green backprinting.
- Trouble-free computer cutting due to the thin caliper of the film.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

### TYPICAL USES

Temporary eye-catching graphics, exterior or internal use on windows, exhibition displays, promotional campaigns, etc...

### PRESENTATION

- 5 satin colours.
- Colour card available on request.
- Rolls of 1,23m x 50m.

# Transparent Vinyl

# MACal<sup>®</sup> 8400

A specially designed intermediate transparent vinyl film for use in illuminated signs made from opaline substrates. MACal 8400 is manufactured in such a way as to guarantee uniform colour reproduction. Available in 10 bright colours, the film may be layered to create a wide range of backlit effects.



## CHARACTERISTICS

- Glossy transparent coloured vinyl film, 80 µm, cadmium free.
- Good colour stability.
- Very good dimensional stability.
- Repositionable during initial application.
- Backing: white kraft paper with blue MACtac backprinting.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.

## TYPICAL USES

- Medium term decoration of illuminated signs made from opaline substrates such as acrylic or stretched fabrics.
- Window graphics: other shades can be achieved by overlaying a combination of the 10 colours.
- Light boxes applications.

## PRESENTATION

- 10 transparent gloss colours.
- Colour card available on request.
- Rolls of 1,23m x 50m.



# Banner Vinyls

MACsoft®  
**900**

*A specially designed, super flexible vinyl for sign making on banners for sport or cultural events, exhibitions, street banners, short-term promotions in supermarkets, DIY stores, public houses, etc...*



### CHARACTERISTICS

- Super-soft PVC films, 70 µm, cadmium free.
- First class dimensional stability.
- Backing: white kraft paper with blue squared backprinting.
- Trouble-free computer cutting.
- Excellent stay-flat on plotter tables.
- Fast and easy stripping and weeding.
- MACsoft films applied on banners can be rolled up without lifting.
- Compatible with most PVC banner grade materials.

### TYPICAL USES

- Promotional markings on banners, streamers, marquees, etc...
- Sport events, building restoration signs, street banners, exhibitions.
- Point of Sale promotions.

### PRESENTATION

- 20 matt colours.
- Colour card available on request.
- Rolls of 1,23m x 50m.



# Masking Films

## 28.180 & 84.817

# MACmask

*Specialty vinyl films designed for paint-mask applications. MACmask 28.180 is ideal for producing masking film for vehicle bodies and is highly resistant to solvents. MACmask 84.817 has been specifically designed for producing paint masks for tarpaulins and is highly resistant to plasticisers. Designed to remove cleanly from most substrates up to 4 hours without leaving adhesive residue. Both MACmask masking films have been specially formulated for trouble-free computer cutting and fast stripping and weeding.*



### CHARACTERISTICS

- Soft vinyl films, 80 µm, cadmium free.
- MACmask 28.180: white matt/acrylic removable adhesive.
- MACmask 84.817: grey transparent matt/rubber-based adhesive.
- Strong adhesive with excellent wet-out properties which prevents possible flow of paint under the adhesive layer, therefore avoids ragged edges.
- The specially formulated adhesive enables MACmask films to be easily and smoothly removed after the paint or ink has dried.

### TYPICAL USES

- MACmask 28.180: masking film for stencilling onto car bodies.
- MACmask 84.817: masking film for stencilling onto curtain sided substrates.



### PRESENTATION

- MACmask 28.180: rolls of 1,524m x 50m.
- MACmask 84.817: rolls of 1,00m - 1,23m and 1,524m x 50m.



## Accessories

A range of items which allow easy application of converted MACTac marking films on to all types of substrates, equipment, vehicles...

### Application Tapes Papers and Films

A comprehensive range of application tapes which allow easy application of converted MACTac marking films on to all types of substrates, equipment, vehicles...

The transparency of the paper tapes ensures visibility of letters/decals. The clear filmic application tapes enables the end-use to clearly identify colours.

### Squeegee

To facilitate the application of self-adhesive decals and letters and films.



#### CHARACTERISTICS

##### MACTransfer 200

Medium tack Paper application tape, 80 µm, coated with a rubber based removable adhesive.  
Rolls of 1,22m x 91,4m.

##### MACTransfer 220

Medium tack Paper application tape, 80 µm, coated with a rubber based removable adhesive.  
Rolls of 1,00m x 100m – 1,22m x 100m.

##### MACTransfer 400

Low tack Clear Polyethylene application tape, 80 µm, coated with a clear removable adhesive.  
Rolls of 1,00m x 100m.

##### MACTransfer 500

Medium tack Clear Polyethylene application tape, 120 µm, coated with a clear removable adhesive.  
Rolls of 1,00m x 100m – 1,22m x 100m.

## MACTac Application Guide

To make applicators more productive, MACTac has developed an application guide presented on a CD giving technical tips to vinyl applicators. This guide will help Applicators to save time and avoid problems when covering difficult substrates such as three dimensional curves, rivets and corrugations. The CD is available from our MACTac Subsidiaries and Distributors and on [www.mactac-europe.com](http://www.mactac-europe.com).

# Product Description

MACmark®		FACE MATERIALS		ADHESIVES	LINERS (*White films with grey «Contrast»
			Thickness		
LONG LIFE	<b>MACfleet™ 6500</b>	Soft laminated, ultra-conformable films	55 µm	Permanent repositionable	Kraft paper ca. 140 g/m²
	<b>MACcal® 9800<sup>BF</sup></b>	Polymeric Bubble Free films	66 µm	Permanent repositionable	Kraft paper ca. 135 g/m²
	<b>MACcal® 9800<sup>PRO</sup></b>	Soft stabilized polymeric PVC films	66 µm	Permanent	* Kraft paper ca. 135 g/m²
	<b>MACcal® 9700<sup>PRO</sup></b>	Polymeric translucent films	80 µm	Permanent	Kraft paper ca. 135 g/m²
	<b>MACcal® Glass Decor</b>	Translucent polymeric vinyl films	80 µm	Permanent	Kraft paper ca. 135 g/m²
	<b>MAClite 5700</b>	Reflective film (flexible engineered grade)	115 µm	Permanent	White PE coated paper, 150 g/m²
MEDIUM LIFE	<b>MACcal® 8900<sup>PRO</sup></b>	Intermediate monomeric vinyl films	70 µm	Semi-permanent	* Kraft paper ca. 135 g/m²
	<b>MACcal® 8300<sup>PRO</sup></b>	Intermediate monomeric vinyl films	70 µm	Permanent	* Kraft paper ca. 135 g/m²
	<b>MACcal® 8200<sup>PRO</sup></b>	Medium term monomeric vinyl films	75 µm	Permanent	* Kraft paper ca. 135 g/m²
	<b>MACcal® 8000</b>	Fluorescent vinyl films (short life)	110 µm	Semi-permanent	Kraft paper ca. 135 g/m²
	<b>MACcal® 8400</b>	Glossy transparent coloured vinyl films	80 µm	Permanent	Kraft paper ca. 140 g/m²
	<b>MACsoft 900</b>	Super-soft PVC films	70 µm	Permanent	Kraft paper ca. 135 g/m²
SPECIALTIES	<b>MACphospho 100</b>	Glow in the dark vinyl films	300 µm	Permanent	Kraft paper ca. 135 g/m²
	<b>MACmask 28.180</b>	Soft vinyl films	80 µm	Removable	Kraft paper ca. 135 g/m²
	<b>MACmask 84.817</b>	Soft vinyl films	80 µm	Removable	Kraft paper ca. 135 g/m²
	<b>MACtransfer</b>	See page 17			

## Choose products by applications

MACmark®													
LONG LIFE	<b>MACfleet™ 6500</b>	•							++++	++++	+++	+++	Fl + R
	<b>MACcal® 9800<sup>BF</sup></b>	•	•					•	++++	++			+
	<b>MACcal® 9800<sup>PRO</sup></b>	•	•					•	++++	+++			+
	<b>MACcal® 9700<sup>PRO</sup></b>				•				++++				+
	<b>MACcal® Glass Decor</b>		•	•					++++				+
	<b>MAClite 5700</b>	•	•					•	++++	+++	+++		
MEDIUM LIFE	<b>MACcal® 8900<sup>PRO</sup></b>	•	•	•				•	+++	+			0%
	<b>MACcal® 8300<sup>PRO</sup></b>	•	•	•				•	++++	+			+
	<b>MACcal® 8200<sup>PRO</sup></b>	•	•	•				•	++++				+
	<b>MACcal® 8000</b>	•	•	•				•	++++				+
	<b>MACcal® 8400</b>		•		•				++++				+
	<b>MACsoft 900</b>					•			++++				+
SPECIALTIES	<b>MACphospho 100</b>			•				•	++++				+
	<b>MACmask 28.180</b>	•					•		++++	+	+		+
	<b>MACmask 84.817</b>					•	•		++++				+
		FLEET MARKINGS	WINDOW GRAPHICS	INDOOR DECORATION	BACKLIT DISPLAYS	BANNERS	MASKING FILMS	DECORATIVE PANELS	FLAT SURFACES	SLIGHTLY CURVED	CORRUGATED /3D	RIVETED SURFACES	

«Contrast» backing)	COLOURS			TYPICAL USES
	Backprinting	Gloss	Matt	
	Red squared	40	-	High performance on flat, curved, riveted or corrugated surfaces. - Fleet decoration (cars, motorcycles, trucks, caravans). - Container and tanker identification.
	Red squared	20	2	Especially suitable for - Large window graphics (wet application method no longer required). - Large fleet graphics on flat or slightly curved surfaces. - Large interior or exterior signs.
	Blue squared	98	2	Permanent interior and exterior marking applications which have a long-term life requirement. - Decorative and vehicle striping. - Fleet markings. - Window graphics. - Decorative panels.
	Blue squared	-	34	Decoration and identification of internally illuminated signs made from glass, acrylic, reinforced polyester cloth, etc Suitable for outdoor and indoor applications, windows graphics.
	Red squared	-	7	Decoration of windows and glass for etched, frosted or sandblasted effect.
	-	8	-	Marking film designed for 24 H a day eye-catching decoration and identification. - Vehicle marking or decoration. - Safety signs.
	Green squared	32	52	Promotional markings for indoor and outdoor application onto glass (windows), metallic substrates or plastics (exhibition stands). Promotional launches, displays, signs, vehicle marking, etc...
	Orange squared	52	2	Promotional markings for indoor and outdoor application onto glass (windows), metallic substrates or plastics (exhibition stands). Promotional launches, displays, signs, vehicle marking, etc...
	Grey squared	50	50	Medium term indoor and outdoor applications.
	Green	5 satin	-	Temporary eye-catching graphics, exterior or internal use on windows, exhibition displays, promotional campaigns, etc
	Green squared	10	-	Medium term decoration of illuminated signs made from opaline substrates such as acrylic or stretched fabrics. Light boxes applications.
	Blue squared	-	20	Promotional markings on banners, streamers, marquees, etc... MACsoft 900 is specifically designed for plasticized banner (PVC coated textile).
	-	1	-	Safety signs.
	-	-	White	MACmask 28.180: masking film for stencilling onto carbodies.
	-	-	Grey	MACmask 84.817: masking film for stencilling onto curtain sided substrates.

APPLICATION METHOD	APPLICATION METHOD		SERVICE T°	REMOVAL T°	CHARACTERISTICS	LIFE EXPECTANCY
	Dry	Wet				
Flat/curved surfaces + 10°C to + 40°C Riveted/corrugated surfaces + 50°C	☺	☹	-50 to +110°C	+ 70/80°C	Exceptional conformability on complex surfaces - No stress whitening (colour change) - No memory effect.	8-10 years
+ 10°C to + 40°C	☺	☹	-40 to +90°C	+ 70/80°C	Very easy to apply with the dry method: up to 50% time saving.	7-8 years
+ 10°C to + 40°C	☺	☺	-40 to +90°C	+ 70/80°C	Good conformability over simple contours - MACal 9800 Pro/SL are very intense and vibrant colours.	7-8 years
+ 10°C to + 40°C	☺	☺	-40 to +90°C	+ 50/60°C	Reliable colour stability and uniformity - First class dimensional stability.	5-7 years
+ 10°C to + 40°C	☹	☺	-40 to +90°C	+ 50/60°C	Reliable uniformity and stability of the simulated etched glass effect.	5 years
+ 10°C to + 40°C	☺	☹	-20 to +90°C	+ 50/60°C (difficult)	High conformable film. Excellent reflectivity.	5-7 years
0°C to + 40°C	☺	☹	-40 to +70°C	+ 15/40°C	Coated with a semi-permanent acrylic adhesive, which can be removed without leaving adhesive residue.	3-4 years
+ 10°C to + 40°C	☺	☺	-40 to +70°C	+ 70/80°C	Intermediate film coated with permanent solvent based adhesive.	4-5 years
+ 8°C to + 40°C	☺	☺	-40 to +80°C	+ 70/80°C	Medium term economic film coated with a permanent water based adhesive.	3-4 years
+ 10°C to + 40°C	☺	☹	-40 to +70°C	+ 15/40°C	Highly visible films in all daylight conditions.	3-6 months
+ 10°C to + 40°C	☹	☺	-40 to +70°C	+ 50/60°C	Window graphics: other shades can be achieved by overlaying a combination of the 10 colours.	3 years
+ 10°C to + 40°C	☺	☹	-20 to +70°C	+ 15/40°C	MACsoft films applied on banners can be rolled up without lifting.	3 years
+ 10°C to + 40°C	☺	☹	-30 to +70°C	+ 70/80°C	High intensity phosphorescent vinyl.	5 years (indoor)
+ 10°C to + 40°C	☺	☹	+10 to +70°C	+ 15/30°C	Designed to remove cleanly from most substrates up to 4 hours without leaving adhesive residue.	-
+ 10°C to + 40°C	☺	☹	+10 to +60°C	+ 15/30°C		-

**D** +++ Excellent  
**ES** ☺ Very good  
 +++ Very good  
 ☺ Possible  
 ++ Good  
 ☹ Not recommended  
 + Possible