

## MACal® 8200 PRO

### PRODUCT DESCRIPTION

MACal 8200 Pro is a calendered soft vinyl films coated with a permanent acrylic adhesive.

MACal 8200 Pro have been specially developed for trouble-free computer cutting and fast weeding, even for small letters and fine lines.

#### Face material:

Calendered vinyl film, 75 µ m thick, cadmium-free.

#### Adhesive:

High quality water based permanent acrylic adhesive.

#### Liner:

Highly stable 135 gsm white kraft paper with grey backprinting.

For white vinyls, the liner is coated with a blue silicone coating to improve the contrast with the film colour.

NB : CONTRAST ensures a clear view during the stripping process therefore improving productivity.

### TYPICAL USE

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

### PROCESSING

#### Computer cutting

Clean, quick, trouble-free cutting with most plotters. Adjustment of the cutting depth is important : if the cut is too deep this could result in the paper splitting and coming away with the adhesive when the vinyl is transferred to Application Tape.

#### Weeding

Easy and fast weeding even for small letters and fine lines.

#### Application

The transfer of the cut vinyl onto the Application Tape should always be performed by removing the liner from the pressure-sensitive material (i.e. with the PVC face downwards onto the working surface) and not by lifting off the Application Tape.

MACal 8200 PRO can be applied with the dry or wet application method on flat surfaces.

### SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

### IMPORTANT REMARK

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination.

The compatibility of paints and lacquers should be tested by the end-user, prior to use.

### EDGE SEALING AND VARNISHING

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift. Correct varnishing of decals gives greater protection, and extends the use-life against prolonged effects of weathering, abrasion and other effects such as frequent cleanings..

### SOLVENT AND CHEMICAL RESISTANCE

Water, water and detergent, alcohols : unaffected.

Oil, gasoline, gasoline-oil : affected (lifting around edges).

### PHYSICAL PROPERTIES (TYPICAL VALUES)

Face Material Data, 23°C	Average values	Test method
Tensile strength (N/15mm)	> 25	DIN ISO 527-3
Elongation at break (%)	> 150	

#### Thickness

Face film + adhesive (µm)	95	ISO 534

#### Adhesive data, 23°C (N/25 mm)

Peel on mirror Stainless Steel		FTM 1
20 minutes	12	
24 hours	16	
1 week	20	

#### Dimensional stability

Shrinkage 48 hours at 70°C applied on aluminium)	Max. 0.5 mm	FTM 14

#### Temperature ranges

Minimum application temperature	-8°C
Service temperature range of use	- 40°C to + 80°C

### EXPECTED DURABILITY\* Central Europe Zone 1

Black & white	4	ISO 4892-2.
Colours	3	

Note : Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitudes and south-facing exposure. No durability warranty is given for horizontal exposure.

Important notice Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

Disclaimer and warranty Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including, but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>. Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims.