

MACal® 9800-00 P series

PRODUCT DESCRIPTION

MACal 9800-00 P are polymeric stabilized calendered soft vinyl films that are coated with a durable, high performance acrylic based pressure-sensitive adhesive. The adhesive is protected with a 135 g:m² bleached kraft liner.

Face Material: Stabilized calendered vinyl film; 0.080 mm thick

Adhesive: Durable transparent acrylic pressure-sensitive

Liner: Highly stable 135 g/m² bleached kraft paper.

TYPICAL USE

MACal 9800-00 P series is designed for permanent interior and exterior marking applications which have a long term life requirement.

These films offer good conformability to simple contours and flat-surfaces, and are ideally suited for containers, vehicles, caravans markings, etc.

MACal 9800 P is generally converted into printed decals but also in cut and prespaced texts and logo's.

PROCESSING

Satisfactory performance for up to 7 years can be obtained with some screen inks and varnishes. However, assurance of ink performance in all cases should be first obtained from the ink supplier.

Note : Exposure to severe humidity and ultraviolet light, as well as conditions 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, horizontal and south-facing exposure. During printing, it is important to carefully dry the inks : retained solvents could lead to plasticization with subsequent application troubles and poor weathering properties. We recommend to maintain an unprinted area of 3-4 mm on the edges of the printed decal.

APPLICATION METHOD

Application of MACal 9800-00 P Series is made easier if a MACtransfer Application Tape is used.

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 chemical 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 hence longer end-use life, against any prolonged effect of weathering, abrasion and other erosive effects such as frequent cleanings.

SHELF LIFE

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

PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness		
Film + Adhesive (micron)	110	ISO 534
Face Material data, 23°C		
Tensile Strength (N/15mm)	>27	DIN ISO 527-3
Elongation at Break (%)	>150	DIN ISO 527-3
Adhesive data, 23°C (N/25 mm)		
Peel adhesion 180° on stainless steel		
- 20 min. residence	11	FTM1
- 24 hour residence	12	FTM1
- 1 week	13	FTM1
Dimensional stability		
Shrinkage (1 week at 70°C applied on Aluminium)	0.3 mm	FTM14
Temperature ranges		
Application (°C)	+10	Minimum
End-use (°C)	-40 to +90	
Flammability		
Sample mounted on aluminium	Self-extinguishing	ISO 3795
Solvent and chemical resistance		
Resistance to most:	oils and grease, fuel, aliphatic solvents, weak acids, salts and alkalis.	

EXPECTED DURABILITY

Central Europe Zone 1 - unprocessed product

White	7 years	ISO 4892-2
Transparent	5 years	

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.

DISCLAIMER

For more information on the durability and exposure please visit the "Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films" on the [www.https://www.mactacgraphics.eu](https://www.mactacgraphics.eu) website.

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