

MACfleet™ 6500

Technical Data Sheet

PRODUCT DESCRIPTION

MACfleet 6500 is a highly conformable vinyl film coated with a durable, high performance acrylic based pressure-sensitive adhesive. The adhesive is protected with a bleached kraft liner.

CONSTRUCTION

Face material :

Soft laminated vinyl film, 55 µm thick, cadmium-free.

Adhesive :

Durable, clear acrylic solvent based.

Liner :

Highly stable 140 gsm white kraft paper with red backprinting.

TYPICAL USES

MACfleet 6500 is a very soft vinyl with high performance **on flat, curved, riveted or corrugated surfaces.**

Generally converted to cut graphics, logos and prespaced text or into screen printed decals.

MACfleet 6500 is used for fleet decoration (cars, trucks, motorcycles, caravans...) and also for container and tanker identification.

MACfleet 6500 is not recommended for use on windows.

DURABILITY

White and black : 10 years.

Clear and colours : 8 years.

Metallics : 6 years.

These end-use-life estimates are based upon accelerated ageing studies and outdoor exposure, in vertical position and in "normal" temperate climates.

Note : Exposure to severe temperatures 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.

SHELF LIFE

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

PHYSICAL PROPERTIES (Average values)

Thickness (mm) (Film + adhesive) ASTM D-645
0.090

Face Material Data, 23°C DIN 53455-5

Tensile strength : > 20 N/15mm

Elongation at break : > 200 %

Adhesive Data, 23°C FTM 1

Peel adhesion 180° on stainless steel (N/25 mm)

- 20 min. residence : 18

- 1 week residence : 22

Dimensional stability

FTM 14

Shrinkage (48 hours at 70°C) : < 0.2 %
(25 cm x 25 cm, sample mounted on aluminium).

Temperature ranges :

Application :

- on flat or curved surfaces : + 10°C to + 40°C

- on riveted or corrugated surfaces : + 60°C

(with heat gun)

End-use : - 40°C to + 90°C

N.B. : for lower temperatures, please consult us.

Flammability

ISO 3795

Sample mounted on aluminium : self-extinguishing.

Solvent and chemical resistance

Resistant to most oils and greases, fuel, aliphatic solvents, weak acids, salts and alkalis.

PROCESSING

Printing

For large quantities of jobs, we recommend the screen printing process.

During printing, it is important to carefully dry the inks : retained solvents could lead to plasticization with subsequent application troubles and poor weathering properties.

It is recommended to maintain an unprinted area of 3-4 mm on the edges of the printed decal.

For jobs of limited quantities, we recommend digital printing techniques on JT 5529 P (available in the IMAGin product range).

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.

Application

MACfleet can be applied on flat surfaces with the wet or the dry method. For curved, riveted or embossed surfaces, the dry method must be used.

In order to prevent any lifting in corrugations, it is essential to heat the film with an heat gun before and after the application. For more information, please refer to the application guide.

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.

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.