

# 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.

### **DURABILITY**

The following end-use-life estimates are based upon accelerated ageing studies and outdoor exposure, in vertical position (90°±5°) and in "normal" temperate climates.

White and black : 10 years.

Clear and colours : 8 years.

Metallics : 6 years.

**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 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

Tensile strength : ≥ 1.17 kN/m

Elongation at break : ≥ 100 %

**Adhesive Data, 23°C** FTM 1

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

- 20 min. residence : > 17

- 1 week residence : > 21

### **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 : - 50°C to + 110°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 that drying is carefully exercised to ensure removal of printing ink solvents as certain solvents if retained can lead to plasticization problems with subsequent application problems and poor weathering.

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**

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.

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

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