

# SAG 36

## Technical Data Sheet

### PRODUCT DESCRIPTION

SAG 36 is a high gloss ultraclear durable polyester film with good UV and abrasion resistance.

Thanks to its good solvent resistance, graffiti can be easily wiped clean from SAG 36.

### CONSTRUCTION

#### **Face material :**

36 µm UV and abrasion resistant PET film.

#### **Adhesive :**

Long life clear acrylic pressure-sensitive.

#### **Liner :**

36 µm clear PET

### TYPICAL USES

SAG 36 is a lamination film developed to protect private or public transport vehicles and areas (trains, subways, tramways, buses,...) that require a graffiti protection.

SAG 36 is not directly applied on the vehicles but is first laminated to a self adhesive vinyl (SAG 9829 for decoration with a printed image or MACal 9800 Pro for decoration with a plain colour).

This combination of films can be applied only onto flat surfaces. Application on riveted, embossed or curved surfaces is not recommended.

The edges of the product could be affected in the case of frequent contact with solvents.

### DURABILITY

5 years.

This use-life estimate is based upon accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure 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 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  
0.060

**Face Material Data, 23°C**      DIN 53455

Tensile strength      : ≥ 4 kN/m

Elongation at break    : ≥ 50 %

### **Adhesive Data, 23°C**

FTM 1

Peel adhesion on stainless steel at 180° :

- after 20 minutes    : > 8 N/25mm

- after 24 hours      : > 11 N/25mm

### **Dimensional stability**

Shrinkage (48 hours at 70°C) : < 0.2 %

(15 cm x 15 cm, sample mounted on aluminium).

### **Temperature ranges :**

Application : + 10°C to + 40°C

End-use      : - 40°C to + 90°C

### **Solvent and chemical resistance**

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

### PROCESSING

#### **Lamination**

MACTac recommends to laminate SAG36 on the vinyl film (SAG 9829 or MACal 9800 Pro) with a professional laminator.

#### **Application**

To be done on a clean and degreased substrate with the dry application method.

#### **Maintenance and cleaning**

The cleaning solution must be wet, non abrasive, without strong solvents and have a pH value between 3 and 11.

#### **Product removal**

Removal of SAG 36 and vinyl laminate will be made easier using heat.

The remaining adhesive residue can be removed using isopropyl alcohol. Note that more adhesive residue will remain on surfaces using nitro-cellulosic paints and abraded paints. Removability is not warranted where varnishes or paints have not been fully oven dried or have insufficient anchorage to the substrate (i.e. due to the presence of rust, chipped paint...).

### IMPORTANT NOTICE

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