AP/90-MBK

Description

Motorbike-Pro, printable white gloss vinyl film with a very strong adherence, designed for labels and graphics to be applied onto plastic parts with a low superficial tension PP, PE and all apolar surfaces such as plastic bodyworks, spoilers, tanks, mudguards of motorcycle and kart. Excellent printability and opacity ensure the film vivid and bright colours even onto dark backgrounds. Easy application due to the glue with channels "Air Free FTX System" which allows the air to escape.

Colours: white gloss.

Printability: printable by printers using Solvent, Eco-solvent, UV and Latex inks.

Technical information

Technical data

Film:	Calendered P.V.C.
Film Thickness (without adesive):	90 +/- 5 µm (Op. Istr. n° 4).
Liner:	PET-Liner 1 side siliconised “Air Free FTX System” (Micro Channel Technology).
Release:	70 +/- 25 cN/20mm.
Adhesive:	HTS acrylic super high tack, difficult to remove.
Grammage:	50 +/- 5 g/m2.
Adhesion after 20 min.:	min. 800 N/m. Peel 180° at 20°C on steel (Op. Istr. n° 7).
Adhesion after 72 h. :	min. 1000 N/m. Peel 180° at 20°C on steel (Op. Istr. n° 7).
Method of application:	dry.
Application temperature:	suggested between 10° and 28°C.
Shrinkage:	< 1,0 mm after 48 h. at 70°C on steel (Op. Istr. n° 8).
Temperature resistance:	from -50°C to +90°C adhered to steel no variation (Op. Istr. n° 15).
Seawater resistance:	adhered to steel no variation after 100 h. at 20°C (Op. Istr. n° 14).

Average expected lifetime

The data below refer to the film as it is, applied on a standard flat surface and not taking into consideration the fi nal application. Therefore, they are indicative values intended only as a source of information, and do not constitute a guarantee.

Life estimates are determined on the basis of the results of UV and Xenon accelerated aging lab tests which simulate some conditions when unprocessed, non shaped, non printed film is submitted/**exposed vertically** (+/- 10% from the vertical) and in weather conditions typical of **Central Europe, correctly applied** on a flat surface.

Factors which drastically reduce the film's expected lifetime:

- horizontal/oblique exposure (angle greater than +/-10 ° from the vertical).
- exposure to long periods of sunlight as in southern climatic regions, areas characterised by high temperatures, high altitudes or high pollution.
- exposure facing towards the sun.
- imperfect application of the film and improper use of laminating machines.
- attack by solvents and other volatile parts contained in printing inks.
- excessive film deformation.
- improper cleaning and maintenance (use of aggressive detergents, scratches, abrasions and contaminations that may occur during installation or the lifetime of the product).
- surfaces subject to high temperatures.

The actual lifetime of a product depends on several factors, including the quality and the preparation of the surface, exposure (environment, weather, exposure angle), film maintenance, pollution. **Therefore, only the operator can determine the suitability of the product and its expected lifetime**.

In order to extend as much as possible the fi lm's lifespan, we recommend following the instructions for Application, Cleaning and Maintenance set out below in this data sheet.

Data from lab testing (UV – XENON TEST):
Short life.

Storage

1 year, film must be kept warehoused at room temperature (20°C / 50% R.H.) suspended horizontally or placed in a vertically upright position in polythene bag.
During the storage, gloss vinyl could become matt. This phenomenon, due to the pressure of the rolling up of the material, could worsen when close to the cardboard core and, is more frequent when the storage temperature is above 25°C and/or when the vinyl is particularly glossy and soft.
It is possible to return the gloss of the vinyl by heating the surface with an industrial heat gun.

Note

The values and the data given are based on tests we believe to be reliable and are typical values intended only as a source of information, and do not constitute a guarantee. **Purchasers must independently determine, before use, the suitability of the material for their own specific use and under their own operating conditions** with the aim to determine if the APA product is suited for the specific goal and is furthermore suited for the use and the pre-selected application-method.

All APA-Print films are produced and packed under very strict quality control procedures in order to guarantee that the films are clean, free of dust and other impurities that might com promise the printability. It's important that the inks are thoroughly dried before application and before any lamination takes place. The residual solvents can otherwise change the

products' specific features. Purchasers must independently determine, the suitability of the product with their own printer and inks, under their own operating conditions, with the aim to determine if the APA product is suited for the specific goal.

General information

Warranty / exclusions of liability

APA materials are guaranteed to be free from all manufacturing defects.
In the event of ascertained defectiveness of the product, APA shall replace the materials used upon manufacturing the decorations.
APA shall not be liable for any additional costs, such as the work necessary for reprinting the design, the losses related to production time, the costs for removing or re-applying the graphics. APA, in addition, does not assume responsibility for the replacement of materials not produced by APA.

A.P.A. SpA cannot be held responsibility for any damages other than the substitution of the goods.

APA guarantees to maintain the interval of the variability of the colours of its products in the best possible way, using instrumental and visual checks.

To avoid colour variation, all the parts of the vinyl applied have to belong to the same production batch. It is also the case for decorations that are required for a long duration of time, updating or improvements of the decoration. Therefore, it is recommended to ask beforehand for the required material, belonging to the same production batch.

No salesman, representative, agent or distributor has authority to supply data different from those reported in this Technical Data Sheet. To make improvements all products may be modified without prior notice.
For a safe use of the self-adhesive materials by A.P.A. it is recommended to read the dedicated safety information.
For a safe use of the cleaners mentioned in this data sheet it is recommended to read the dedicated safety sheets.

Print

The film is developed to be used on major printers using Solvent, Eco Solvent, UV and Latex inks. For a good printability and converting result we recommend allowing the rolls acclimatise in the print room at least 24 hours before printing or converting.
Too much temperature or humidity deviation between material and room climate can cause lay flatness and printability issues. Setting the most suitable profile, to get the best printing result.

Over-lamination

It's important that the inks are thoroughly dried before application and before any lamination takes place. The residual solvents can otherwise change the products' specific features. Therefore after print we recommend to let the film rest at least 48 hours in a room with a temperature of 20° C.
Recommended lamination is the APA Over-lamination calendered film L/11-MBK.

Application

The film is conceived for a highly professional use.
The staff that apply the vinyl must possess the requirements and the training necessary.
The film is designed to be applied on plastic parts with a low superficial tension PP, PE and all apolar surfaces such as plastic bodyworks, spoilers, tanks, mudguards of motorcycle and kart.

Before applying the film always test the compatibility between the self-adhesive vinyl and the surface of the decoration and in particular verify the presence of oil, wax and other substrates, including those made by the cleaning, that could compromise the adhesion of the film and cause it to detach in the future. Make a general cleaning of the surface with APA EASY CLEANER.

Before using APA EASY CLEANER always test the compatibility of the products on a corner of the surface which has to be cleaned.

It is recommended to apply the film in a room with a temperature between 10 and 28°C.
Apply the vinyl only using the dry method. Do not use water.

This vinyl is not compatible with:
- Non-flat surfaces, slightly curves are allowed
- painted surfaces with poor adhesion of the paint to the surface underneath
- dusty surfaces
- dirty surfaces
- surfaces that give out gas (out-gassing)
- gasoline vapors or spillages

Cleaning the vinyl

Proceed with the cleaning process if the printed film has been over-laminated.
use water with soft cloths.
Use water with soft cloths and non-aggressive detergents.
Do not use rough sponges and cloths, abrasive creams or very strong solvents. Cleaning with unsuitable products and tools could cause a premature deterioration of the vinyl. To remove ground in dirt, we advise the use of the quick cleaner APA CLEANER FILM and water. **Do not use wax or polishing products** which, in addition to being difficult to remove, may alter or accelerate the deterioration of the film.

If water under pressure is used for cleaning, never aim the jet at the edges of the film because the force of the water could lift it or detach it. However the nozzle must be perpendicular and never oblique to the surface to be cleaned and at least 1 meter away.
The film with a gloss finish, if treated badly, could go matt and stripe beyond remedy.

Maintenance

The surface of the vinyl should be treated with care. Avoid rubbing against objects that could cause scratches or ripping of the vinyl beyond repair.
An extended exposition to solar rays and to atmospheric agents could provoke a premature aging of the film, especially for the parts exposed horizontally.
In this regard, gloss films can lose shine and give a matt appearance.
In conclusion, we recommend protecting the decorated surface from the sun and the elements to the greatest extent possible.
If a film deterioration should arise, for example, fading, change of colour or become brittle, then an immediate removal is recommended.
For a good maintenance of the vinyl regular cleaning is recommended.

Removal

Due to the high tack film adhesiveness, **it is important to acknowledge that during the removal process, it is possible that varnish or primer can be peeled off together with the film. Furthermore, possible glue traces can remain on the surface.**

During the removal process it is important to apply heat gun to the self-adhesive vinyl.
The operations of the vinyl removal are conditioned by many factors, such as the time passed from the application, exposure of the decoration either outdoors or indoors, type of surface, temperature of the room and of the surface, etc... **Therefore it is difficult to quantify and determine the speed and execution time of the removal by A.P.A. SpA.**

The company APA cannot be held responsible of any damage caused during the removal phase and/or damages of the surface upon which the film has been applied.