

CH CHROME



Description

A High quality vinyl especially designed to decorate flat and curved surfaces where high end chrome accents are desired. Due to the exclusive protection **OLCHS** Over-Lam-Chrome-Surface, the metal surface scratched resistance is increased.

The glue with the channels allows the air to escape during the application using the "Air Free FTX System" technology.

The Chrome line is perfectly printable with Solvent, Eco-solvent and UV inks.

Colours: Silver, Steel, Red, Green and Blue.

Technical Information

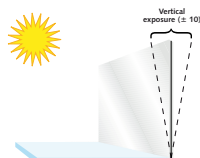
Film:	Multilayer P.V.C. Film
Film Thickness (without adhesive):	125 +/- 10 µm 150 +/- 10 µm Galaxy (Op. Istr. n° 4)
Liner:	PET-Liner 1 side siliconised "Air Free FTX System" (Micro Channel Technology)
Release:	4 +/- 3 N/m (Op. Istr. n° 3)
Adhesive:	Ultra-permanent acrylic high cohesion (pigmented where necessary)
Grammage:	25 +/- 5 gsm.
Peel 180° after 20 min.:	min. 600 N/m on steel at 20°C (Op. Istr. n°7)
Peel 180° after 72 h.:	min. 850 N/m on steel at 20°C (Op. Istr. n°7)
Application:	dry method
Application temperature:	Suggested between 15 and 28°C
Shrinkage:	< 0,2 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)

Life expectation*:

2 years, when vinyl is exposed vertically (+/-10° from vertical) in middle European climate conditions (Central Europe), not shaped and applied correctly on a flat surface.

Reasons for a significant reduced performance level:

- Not vertical vinyl exposure (more than +/-10° from vertical).
- Southern-European climate conditions, exposition of the vinyl to long periods of sunlight,



areas with high temperatures, high altitudes or highly polluted and/or an inadequate maintenance of the vinyl.

General Data

Storage: 1 year 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 heatgun.

Application: the film is conceived for a highly professional use.

The staff that does the application must possess the requirements and the training necessary.

Before applying the film always test the compatibility between the self-adhesive vinyl and the surface of the decoration and in particular verify:

1 - the stability of the paint on the surface to be decorated. It is recommended the application on coloured surface with original paint from the manufacturer (OEM).

We recommend against the application of film on damaged parts, for example, repaired and repainted.

2 - the presence of oil, wax and other substrates, 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. Re-clean the corners, edges, slits, rivets and all the areas where the vinyl undergoes an increased shaping with APA CLEANER XT. Before using APA EASY CLEANER and CLEANER XT 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 15 and 28°C.

Apply the vinyl only using the dry-method. Do not use water!

This vinyl is not compatible with:

- porous surfaces in general either made of plastic or of other material
 - surfaces with small superficial tensions, silicone, rubber, PP, PE and all apolar surfaces
 - painted surfaces with poor adhesion of the paint to the surface underneath
 - dirty surfaces such as walls and non-smooth surfaces
 - flexible surfaces such as banners, truck curtains or textiles
 - surfaces that give out gas (out-gassing)
 - gasoline vapors or spillages
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Important! Do not apply the film on surfaces that may reach high temperatures for extended periods of time (for example surfaces that are exposed to intense solar irradiance or surfaces that are in contact with heat sources).

In the case of heating the vinyl with an industrial heat gun, pay close attention not to exceed a temperature of 50°C and to heat the surface of the vinyl in an uniform way.

Do not direct the heat gun in a single point, extreme heat can spoil the metal surface.

In order not to lose the metal effect, we recommend not to re-shape the vinyl more than 25% silver (CH/099.1-CH/S99.1) and 15% steel (CH/099.11) of its dimensions. If you exceed this limit, the vinyl tends to become matt and then forms a white appearance.

The vinyl, once applied and especially where it has been re-shaped, can be heated to 100°C for the final fix.

During the trimming process, in order to obtain a clean and definite cut of the film, always use a cutter with a very sharp blade.

Film may scratch during application or during daily use.

Apply the vinyl with a rubber roller. In case of plastic applicator, the use of plastic with antiscratch fabric is recommended and keep wet the fabric with water.

Chrome brightness emphasize scratches, marks and micro imperfections on the film surface.

That's why small imperfections on the film surface should not been considered as defects.

Cleaning the vinyl: 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.

The film has a high glossy finish, if treated badly, could go matt and stripe beyond remedy. To remove ground in dirt, we advise the use of the quick cleaner APA CLEANER FILM and pressurized water. We recommend against the use of wax or polish products.

If high-pressure washing is performed, then you must never aim the water jet on the edges of the film, as the water power might create over lifting and detachments. To prevent distortion and over lifting to the vinyl, the water nozzle must always be kept perpendicular and never oblique to the surface that needs to be cleaned.

Maintenance: Maintenance: the surface of the vinyl is delicate and therefore 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 or to the south. Therefore, we advise to protect, as much as possible, the decorated surface from sunlight and atmospheric agents.

Removal: during the removal process it is important to apply heat to the self-adhesive vinyl, up to a temperature of 50°C. An in-correct temperature in this phase may cause parts of the paint to detach. In regards to this, pay extra attention to painted plastic parts and areas of the bodywork that have been repainted.

In some cases there has been a color change with some light colored paints after the removal of the vinyl. This is due to the reaction generated by the paint on which the vinyl is applied, for which A.P.A. SpA can not be held responsible. It is therefore the responsibility of the customer to determine the suitability of the self-adhesive vinyl with the surface that it is to be applied to. 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.

Should glue traces remain on the surface, these can easily be removed with the ready-for-use liquid APA Remover. Before using APA Remover always test the compatibility of the product on a corner of the surface which has to be cleaned.

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.

General Indications*: 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. Life expectation values are based upon accelerated ageing lab test, on material non-shaped and applied to a flat surface.

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.

Purchasers and users accepts responsibility to ensure compliance with any and all laws and regulations concerning the use of chrome film on vehicles and graphics applications, and users assumes all risk and liability in connection with it.

APA branded products are manufactured under careful quality control and are warranted against defect in material and workmanship.

A.P.A. SpA cannot be held responsibility for no damage 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.
- The feature of a metal colour depends of the angle of vision of the products. For a uniform colour all parts must be applied maintaining the same direction of orientation.

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.

