LH/1

Description

Transparent film with embossed matt finish, with excellent surface resistance. Designed for NW/610-FC.

Colours: matt transparent.

Technical information

Technical data

Film:	Calendered P.V.C.
Film Thickness (without adesive):	150 +/- 15 µm (Op. Istr. n° 4).
Liner:	Clay coated paper 1 side siliconised.
Release:	100 +/- 30 cN/20mm.
Adhesive:	ultra-permanent acrylic high cohesion.
Grammage:	25 +/- 5 g/m2.
Adhesion after 20 min.:	min. 400 N/m. Peel 180° at 20°C on steel (Op. Istr. n° 7).
Adhesion after 24 h. :	min. 600 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:	< 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).
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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 final 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):
Film for internal use, external 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.

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.

ll APA over laminate 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 compromise the usage. Before any lamination takes place it's important that the inks of the printed graphic are thoroughly dried. The residual solvents can otherwise change the specific features of the product. Purchasers must independently assess the suitability of the product 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.

Application

The film is conceived for a highly professional use.
The staff that apply the vinyl must possess the requirements and the training necessary.

This over-lamination film is designed to laminate Calendered vinyl film NW/610-FC.

Before any lamination takes place it's important that the inks of the printed graphic are thoroughly dried. The residual solvents can otherwise change the specific features of the product. Therefore after print we recommend to allow the film to rest for at least 48 hours in a room with a temperature of 20°.

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.
For the application, cold laminating machines can be used.

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. 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.

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.
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.