

GRAFIPRINT LAMINATES PVC-FREE



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Description

Grafiprint pvc-free laminates are soft, environmentally friendly, transparent, polyolefin-based films, provided with a pressure-sensitive water-based acrylic adhesive. This adhesive is protected by a high-quality silicone paper.

Characteristics

- Finish : transparent glossy, matt or satin.
- Thanks to their excellent quality, the Grafiprint laminates are (in combination with Grafiprint print media) extremely suited for all kinds of applications on an even surface.
- In combination with the pvc-free Grafiprint print media, the end product has an outdoor life expectancy of 3.5 to 5 years (if applied correctly, for vertical applications and under Central-European conditions).
- Simple cleaning.
- Good chemical resistance.

Application

Grafiprint pvc-free laminates have been developed especially to be used in combination with pvc-free Grafiprint print media, and meet the modern requirements of printed applications. The material is perfectly suited for all even surfaces.

→ *Other applications in close consultation with Grafityp !*

Limitations

Limitations are mentioned for each product group separately in the respective technical data sheets, of which you can find the most recent version on the Grafityp website (www.grafityp.com).

Warranty

Please consult the General Grafiprint Warranty Certificate for detailed warranty declarations of the Grafiprint laminates. The most recent version of this warranty certificate will be available on the Grafityp website (www.grafityp.com).

Mounting Instructions

- Allow the printed media to dry and degas for 24 to 48 hours (or even longer, depending on the amount of ink used) before laminating them.
- Grafiprint laminates need to be applied on a print by means of a laminator.
- Allow the laminated film to rest for at least 24 hours, so it can reach its maximum adhesive strength between the laminate and the print. The laminated print can be applied on the substrate after this period of time.

Grafityp provide trainings in various levels, enabling the customer to mount these films in a professional and skilled way. A detailed manual on the application of Grafiprint films can be found on the Grafityp website (www.grafityp.com).

Before mounting

A brief preceding study will save you a lot of time and will guarantee a better end result. Always check the following points :

- What kind of Grafiprint laminate needs to be laminated ?
- Which Grafiprint laminate is the most suitable, and does it meet the requirements set by the customer ? Check in the table on the next page which material is best suited for your particular job.
- Prints that are meant for wrapping are best laminated hot.

Tip : preferably use the combinations of Grafiprint print media + laminates, recommended by Grafityp. Don't combine cast films with e.g. calendered or non-pvc films, one kind on top of the other. They have different characteristics, which may have a negative effect on the end result.

Grafiprint print media Monomeric (M-Series)	Recommended Grafiprint laminates	Even	Slightly undulating	Rivets	Strongly undulating	Deep indents	Vehicles, wrapping		Short-term	Middle-term	Long-term
		GEF ES	LAM121 - LAM130 - LAM171	☺	☺						☺
GEF LX	LAM121 - LAM130 - LAM171	☺	☺						☺	☺	
GEF UV	LAM121UV - LAM130UV LAM171UV	☺	☺						☺	☺	

The preparation

- It goes without saying that laminating takes place in a clean and dust-free environment.
- At all times avoid that printed rolls are on the floor before they are laminated (attract dust particles).
- Also make sure that there is no dust or dirt on your clothing, e.g. from sawing panels.
- Keep your fingers in contact with the printed surfaces or with the adhesive layer of the laminate as little as possible.

Laminating

There are various ways to laminate the print media :

- Cold lamination : can be used for most applications
- Warm lamination : is always better and is advised for wrapping. Warm lamination is done by heating your laminated print at the bottom side (= by heating the backing paper instead of the laminate).

Follow the instructions in the manual and pay attention to the safety instructions that come with your laminator.

Allow your print to dry for at least 24 to 48 hours (or even longer, depending on the amount of ink) before laminating it, and wait for another 24 hours before applying the film.

Tip : Remove any excess laminate around the edges immediately after laminating. Nothing is more annoying than pieces of laminate that stick to your print when it is unrolled.

Cleaning and maintenance

After the films have been mounted, they can immediately be cleaned with a dust cloth or a slightly moist cloth.

Once the film has reached its optimal adhesive strength (after a couple of days), the surface can be cleaned under normal conditions. Please take the following guidelines into consideration :

- Don't use any scouring cleaning agents.
- Don't use any cleaning agents that contain strong solvents or alcohol.
- Use cleaning agents with a pH value between 3 and 11.

Removal

- Grafiprint laminates are always removed together with their underlying film.
- If the film is separated from an underlying printed film, the underlying print will most probably get damaged.

Product range

Grafiprint pvc-free laminates are available in the following versions :

Reference	Description	Adhesive	For UV-prints	Thickness film (DIN 53370) *
LAM121	Transparent matt	Permanent		70 µm
LAM121UV	Transparent matt	Permanent	☺	70 µm
LAM130	Transparent satin	Permanent		70 µm
LAM130UV	Transparent satin	Permanent	☺	70 µm
LAM171	Transparent glossy	Permanent		70 µm
LAM171UV	Transparent glossy	Permanent	☺	70 µm

* The thickness of the Grafiprint laminates may vary slightly. The values mentioned are average values, obtained from a series of measurements.

Product Characteristics

A detailed overview of the product characteristics can be found on the respective technical data sheets, of which you can always find the most recent version on the Grafityp website (www.grafityp.com).

Storage Instructions

All Grafiprint materials always need to be stored in their original packing and with the original protection flanges (and preferably stored vertically).

In order to avoid any loss of quality, the Grafiprint materials should also be stored in suitable conditions, that is at a temperature between 10 and 20°C and a relative humidity of 50 %.

Under these conditions the Grafiprint materials can be stored up to two years.

Important

The information mentioned in this product bulletin is based upon tests that were executed by Grafityp and that we consider to be reliable. The information always represents an average, a minimum or a maximum value, and should be considered as such. It is only given for your information, and does not give any guarantee. Grafityp cannot be held responsible for any damage, either direct or indirect, resulting from the use of the film. It is up to the user to decide whether or not the product is suited for his particular application.

Technical Service

If you have any technical questions with regard to the Grafiprint films you can always contact our technical department :

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