

PRODUCT DATA SHEET

GRAFIPRINT LAMINATES



REFERENCE LAM121

Reviewed on 17th July 2019

Description

Grafiprint LAM121 is an ecological soft matt transparent GEF film, provided with a water based pressure-sensitive permanent acrylic glue. The glue is protected by a high-quality silicone paper. This seamless laminate has especially been created for protecting digital prints.

Composition

| | |
|---------------|---|
| Film | : 80 micron thick matt transparent GEF film with an excellent resistance against UV-light, chemical products, humidity, dirt and fingerprints |
| Glue | : water based pressure-sensitive permanent acrylic glue. This glue does not have an aggressive reaction on the printout |
| Backing paper | : siliconised white clay-coated paper of 120 gr/m ² |

Application

The Grafiprint LAM121 laminate is perfectly suited for all indoor applications and long-term outdoor applications (3.5 to 5 years), and gives your prints a matt effect.

Product Specifications

Technical properties at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C.

| | | Test method | Result |
|-----|--|-------------|---------------------------|
| 1. | Thickness¹ | | |
| | Thickness film | Din53370 | 80 micron |
| | Thickness film + glue + backing paper | Din53370 | 220 micron |
| 2. | Elongation at break² | | |
| | In production length direction | Din53455 | > 300 % |
| | In cross direction | Din53455 | > 300 % |
| 3. | Dimensional stability³ | Finat 14 | 0,1 mm |
| 4. | Degree of Gloss | | |
| | Maximum (measuring angle 85°) | Din67530 | 15 GU (gloss units) |
| 5. | Adhesion strength⁴ | | |
| | After 20 minutes | Finat 1 | 10 N/25mm |
| | After 24 hours | Finat 1 | 13 N/25mm |
| 6. | Quickstick⁵ | Finat 9 | 7 N |
| 7. | Expected outdoor life span⁶ | - | 3.5 to 5 years (vertical) |
| 8. | Temperature range | | |
| | At application | - | +10°C up to +35°C |
| | At use | - | -15°C up to +60°C |
| 9. | Colour back print | - | grey |
| 10. | Flammability | | |
| | Product is flame resistant, officially certified as "B1" Din4102-1 (DE) and "CLASS 1" BS476-7 (UK) | | |

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 laminate 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 for a period of two years.

Remarks

- Preceding compatibility tests are always advisable !
- Due to the high elasticity of the Grafiprint GEF Laminates, we advise you to use as little tension as possible when applying this material.
- In order to prevent scratches on the soft GEF laminate, we advise you to apply it with a soft squeegee or by machine.
- We cannot guarantee perfect adhesion, if a PVC material is applied on top of the GEF laminate. However, the GEF laminate will adhere perfectly on PVC material. **Please be aware of this in case of a possible overlap.**
- Due to the absence of plasticizers and due to their high flexibility, the GEF laminates can be used on monomeric as well as on polymeric calendered vinyls.

Important

The information, mentioned in this product data sheet, 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. It is up to the end user to decide whether or not the product is suited for his particular application.

- 1)**
The thickness of the Grafiprint materials may vary slightly. The indicated value is an average value, obtained from a series of measurements.
- 2)**
The elongation at break of the Grafiprint materials may vary slightly. The indicated value is a minimum value, obtained from a series of measurements.
- 3)**
The dimensional stability is the shrinkage in mm. This value is measured by applying the film on aluminium (10x10cm), and placing it in a hot-air oven at 70°C for 48 hours (= Finat 14 Method, adjusted according to our own internally developed procedure). The indicated value is a maximum value, obtained from a series of measurements.
- 4)**
The adhesion strength is measured on glass, and this after 20 minutes and after 24 hours. The film is removed again in an angle of 180° and at a speed of 300 mm/min. The indicated value is an average value, obtained from a series of measurements.
- 5)**
The "Quickstick" is the direct adhesion strength, measured on glass. The indicated value is an average value, obtained from a series of measurements.
- 6)**
The expected outdoor life span refers to outdoor use under Central European conditions and to vertical applications. Non-vertical application can reduce the life span up to 50%. The expected life span of our films is based upon professional application on a dry, degreased and suitable background. Tropical conditions, or the use near chemical emission, may have a detrimental effect on the life span. For more detailed information we also refer to our general "Grafiprint Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".