

GRAFIPRINT LAMINATES



REFERENCE LAMPDF (UV-Block)

Reviewed on 2nd September 2019

Description

Grafiprint LAMPDF is a soft glossy co-extruded PVDF (polyvinyl-difluoride) anti-graffiti overlamine, provided with a 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 from stains, abrasion, scratches, UV-light and graffiti.

Composition

| | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Film | : 50 micron thick glossy co-extruded polyvinyl-fluoride anti-graffiti film with an excellent resistance against UV-light, chemical products, humidity, dirt and fingerprints |
| Glue | : solvent-based pressure-sensitive permanent acrylic glue. This glue does not have an aggressive reaction on the printout |
| Backing paper | : siliconised clay-coated paper of 120 gr/m ² |

Application

Thanks to its excellent UV-block, the Grafiprint LAMPDF laminate is perfect for long-term outdoor use under the most extreme conditions. As such, it may add enormously to the UV-resistance of your printouts. In addition, this anti-graffiti laminate offers excellent protection against abrasion, scratches and most chemical products/solvents. Preceding compatibility tests are, however, advisable.

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 | 50 micron |
| | Thickness film + glue + backing paper | Din53370 | 200 micron |
| 2. | Elongation at break² | | |
| | In production length direction | Din53455 | > 27 % |
| | In cross direction | Din53455 | > 27 % |
| 3. | Dimensional stability³ | Finat 14 | < 0.2 mm |
| 4. | Degree of Gloss | | |
| | Minimum (measuring angle 20°) | Din67530 | 20 GU (gloss units) |
| | Maximum (measuring angle 20°) | Din67530 | 30 GU (gloss units) |
| 5. | Adhesion strength⁴ | | |
| | After 20 minutes | Finat 1 | 15 N/25mm |
| | After 24 hours | Finat 1 | 17 N/25mm |
| 6. | Quickstick⁵ | Finat 9 | 17 N |
| 7. | Expected outdoor life span⁶ | - | 5 to 7 years (vertical) |
| 8. | Temperature range | | |
| | At application | - | +5°C up to +40°C |
| | At use | - | -45°C up to +115°C |
| | Short period of exposure | - | up to 175°C |
| 9. | Colour back print | - | grey |
| 10. | Flammability | | |
| | If applied on aluminium, glass, steel = self-extinguishing | | |

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.

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".