

## PRODUCT DATA SHEET

# GRAFIPRINT WINDOW GRAPHIC MEDIA



## REFERENCE WG2P

Reviewed on the 1<sup>st</sup> of July 2013

### Description

Grafiprint WG2P is a soft polymeric calendered self adhesive PVC film, which is white at one side and black at the other side. The white side is provided with a pressure-sensitive permanent acrylic adhesive, which is protected by a high-quality silicone paper.

### Composition

- Film : 140 micron thick white/black polymeric calendered vinyl film with an excellent resistance against UV-light
- Glue : solvent-based pressure-sensitive permanent acrylic glue. This glue does not have an aggressive reaction on the printout

### Usability

Grafiprint WG2P is used in combination with Grafiprint S20P (transparent polymeric calendered digital printing film).

### Application

Grafiprint WG2P was especially developed for creating window graphics at the inside of vehicles, shop windows, etc..., and is used in combination with the transparent Grafiprint digital printing film S20P. An image is printed in reverse on this transparent Grafiprint digital printing film S20P, after which (after complete drying) Grafiprint WG2P is laminated onto the print. Horizontal strips are then cut out on a cutting plotter. We advise a strip width of about 6 mm, with an interval of about 3 mm between each strip. Of course, you can adjust these widths according to your own preferences, and depending on the distance from the image. After cutting the strips, the superfluous film is removed, leaving behind only the window graphic, which is applied to the inside of a window by means of application tape or paper.

### Product Characteristics

- The window graphic can be applied at the inside of a window, so it won't be exposed to all kinds of frictions, (e.g. the windscreen wiper at the rear window of a car), and as a result doesn't get damaged that easily.
- The window graphic can be applied at locations where it cannot be damaged or removed by vandals.
- The window graphic can be applied on curved or convex windows (e.g. car windows).
- The window graphic can be applied to a wide variety of materials, such as PVC, PET, glass or acrylic plates.

### Product Specifications

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

|    |  | Test method | Result     |
|----|--|-------------|------------|
| 1. | <b>Thickness<sup>1</sup></b>             |             |            |
|    | Thickness film                           | Din53370    | 140 micron |
|    | Thickness film + glue + backing paper    | Din53370    | 282 micron |
| 2. | <b>Elongation at break<sup>2</sup></b>   |             |            |
|    | In production length direction           | Din53455    | > 275 %    |
|    | In cross direction                       | Din53455    | > 175 %    |
| 3. | <b>Dimensional stability<sup>3</sup></b> | Finat 14    | < 3.0 mm   |

|    |   | Test method        | Result                   |
|----|---|--------------------|--------------------------|
| 4. | <b>Degree of Gloss</b><br>Gloss (measuring angle 85°)                             | Din67530           | 15 – 25 GU (gloss units) |
| 5. | <b>Adhesion strength<sup>4</sup></b><br>After 20 minutes<br>After 24 hours        | Finat 1<br>Finat 1 | 12 N/25mm<br>18 N/25mm   |
| 6. | <b>Quickstick<sup>5</sup></b>   | Finat 9            | 12 N                     |
| 7. | <b>Expected outdoor life span<sup>6</sup></b>                                     | -                  | 5 years (unprinted)      |
| 8. | <b>Flammability</b><br>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 window graphic material 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

If the window graphic is exposed to a temperature shock in extremely cold temperatures (e.g. by using the rear window heating of a car in Winter time), the window graphic can in some cases come loose a little bit. It is sufficient in this case just to rub the window graphic again, after which it will adhere again.

We advise you to clean the window graphic in the same direction as the strips go.

Grafiprint window graphic is a patented system (patent number 1530188).

## 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".  
Subject to modifications.