

## PRODUCT DATA SHEET



# GRAFIPRINT MEDIA FOR LARGE FORMAT PRINTING

## REFERENCE WG15R

Released on 14<sup>th</sup> September 2016

### PROVISIONAL SPECIFICATIONS



## Description

Grafiprint WG15R is a monomeric calendered black-and-white glossy film with perforations of 1.5 mm, specially for use on Solvent (eco/mild/hard) and latex printers. The film is provided with a removable pressure-sensitive solvent-based acrylic adhesive. This adhesive is protected by a high quality silicone paper.

## Composition

Film :  $\pm$  160 micron thick monomeric calendered black-and-white glossy micro-perforated film, with a removable adhesive.  
 Adhesive : removable pressure-sensitive solvent-based acrylic adhesive, with a high resistance against UV-radiation, chemical products and humidity.  
 Backing paper : white PE-coated Paper of 140 gr/m<sup>2</sup>.

## Usability

Grafiprint window graphic material WG15R can be used on most solvent (eco – mild – hard) and latex printers. Not suited for UV printers. When UV inks are used, the holes in the material may get clogged.

## Application

Grafiprint WG15R film has been specially developed for indoor as well as short-term outdoor window graphic applications.

## Product Specifications

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

		Test method	Result
1.	<b>Thickness<sup>1</sup></b>		
	Thickness vinyl	Din53370	160 micron / 140 g
	Thickness vinyl + glue + paper	Din53370	330 micron / 295 g
2.	<b>Elongation at break<sup>2</sup></b>		
	In production length direction	Din53455	> 50 %
	In cross direction	Din53455	> 50 %
3.	<b>Dimensional stability<sup>3</sup></b>	Finat 14	< 0,40 mm
4.	<b>Adhesion strength<sup>4</sup></b>		
	After 20 minutes	Finat 1	4 N/25mm
	After 24 hours	Finat 1	7 N/25mm
5.	<b>Quickstick<sup>5</sup></b>	Finat 9	3 N
6.	<b>Transparency</b>	-	30 %
7.	<b>Expected Outdoor life span<sup>6</sup></b>	-	2 years
	<b>Removability</b>	-	1 year
8.	<b>Temperature range</b>		
	At application	-	+10°C to +35°C
	At use	-	-20°C to +70°C
9.	<b>Colour back print</b>	-	no backprint
10.	<b>Flammability</b>		
	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 Solvent Vinyl 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

Large amounts of solvent ink on the material can activate the ink on the backside of the material. If the material is enrolled too quickly after printing, the print on the backside of the material may become visible in your printout. Therefore we advise you to limit the amount of ink and to leave the prints to dry sufficiently before enrolling them.

As the colour of the film can differ slightly for each production run, we advise you not to use films with different batch numbers in one single and critical job. The number to be taken in to consideration for this purpose consists of the first 5 numbers of the 7-digit batch number.

GrafiWrap WG15R is suited for UV-curable inks, but large amounts of ink on the material can cause the holes to get clogged. The result is that the ink doesn't stay behind on the release liner when the print is removed from the release liner.

## Recommended drying times

- With light prints : at least 2 days until application
- With dark prints : at least 3 days until application
- With high quantities of black ink : at least 3 days until application – we also advise you to seal the edges with a strip of cast transparent film

## Recommended temperature settings

When printing on the Grafiprint print media, the temperature settings of the printer are extremely important. The following temperature settings can be considered as guide values :

- Solvent based inks (eco/mild/hard) : pre-heater 35-45°C, after-heater 40-50°C
- HP latex inks : drying 55°C, curing 90-110°C
- Mimaki latex inks : pre-heater 50°C, print 50°C, curing 50°C

Depending on the ambient conditions, the amount of ink and the requested print quality, these temperatures can vary slightly. The temperature settings can be raised, on condition that the Grafiprint material stays completely flat. A too high temperature can lead to an inferior print quality and to colour differences, because the material will become soft, as a result of which it might get damaged by the transport wheels of the printer, and because the material will undulate, as a result of which it could touch the print head.

If an after-heater (dryer) is used, we advise an after-heater temperature that is about 5°C to 10°C higher than the pre-heater temperature. But again, the material should not undulate as a result of a too high temperature setting.

In general, we can say the temperature of both heaters should be set as high as possible, without the material showing any form of undulation.

## Tips

If you wish to remove the film after a while, we advise you to use a heat gun. If any glue residues stay behind on the glass surface after taking off the film, you can simply remove them by moistening them with soap-water. Leave this to soak in for a couple of minutes, and then chip it off by means of a steel scraper (also used for removing paint stains).

Grafiprint window graphic films (laminated as well as unlaminated) should always be enrolled with the printable side outwards. Before applying the film to a window, we advise you to clean the window with water (don't add any soap or other products) and to degrease with isopropanol, ethanol or methanol afterwards.

Grafiprint WG15R ALWAYS needs to be applied dry.

Grafiprint WG15R shall not be applied at a temperature < 10°C. In case of colder temperatures, please make sure the window is heated.

NEVER apply the film against the rubbers or silicones. Make sure you always stay at least 2 mm from the edge.

Please wait for at least 24 hours before laminating the printed WG15R.

When applying the film on glass, please try to avoid touching the glue side with your hands.

## 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 of the unprinted material 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.

As the quality of your print does not only depend on the Grafiprint medium, but also on so many other factors (such as the printer, the quality of the inks, the print software, the ICC profile, the ambient temperature, the air humidity, etc...), GrafiTyp can not guarantee or be held responsible for the eventual print result.

The materials mentioned in our compatibility list have been tested under normal conditions and are purely indicative.

Subject to modifications. For more detailed information we also refer to our general "Grafiprint Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".

**GRAFITYP Selfadhesive Products N.V.**  
**Grafiprint media for solvent printers – WG15R**  
**GrafiTyp is an ISO-9001 certified company**