

# GRAFIPRINT MEDIA FOR UV-CURABLE PRINTERS



## REFERENCE GEFUV

Released on 1<sup>st</sup> April 2018

### PROVISIONAL SPECIFICATIONS

#### Description

GrafiPrint GEFUV is a seamless soft white matt environment-friendly chlorine- and plasticizer free Grafityp Ecology Film (GEF), which was developed to be used on UV-Curable printers. The film is provided with a semi-permanent pressure-sensitive water-based acrylic adhesive. This adhesive is protected by a high quality clay-coated release liner.

#### Composition

Film : 100 micron thick white matt GEF (Grafityp Ecology Film)  
 Adhesive : semi-permanent pressure-sensitive water-based acrylic adhesive  
 Backing paper : clay-coated release liner of 135 gr/m<sup>2</sup>

#### Application

GrafiPrint GEFUV film is perfectly suited for all possible indoor applications and middle- to long-term outdoor applications on non-corrugated surfaces.

#### Certificate

- The product is perfectly safe when used indoors and contributes to a clean and safe living environment.
- "Class 1" BS 476 Part 7

#### 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	100 micron
	Thickness film + glue + paper	Din53370	260 micron
2.	<b>Weight<sup>1</sup></b>		
	Weight film	-	100 g/m <sup>2</sup>
	Weight film + glue + paper	-	255 g/m <sup>2</sup>
3.	<b>Elongation at break<sup>2</sup></b>		
	In production length direction	Din53455	n.a.
	In cross direction	Din53455	n.a.
4.	<b>Dimensional stability<sup>3</sup></b>	Finat 14	< 0,2 mm
5.	<b>Degree of gloss</b>		
	Maximum (measuring angle 60°)	Din67530	6 GU (gloss units)
6.	<b>Adhesion strength<sup>4</sup></b>		
	After 20 minutes	Finat 1	3 N/25mm
	After 24 hours	Finat 1	5 N/25mm
7.	<b>Quickstick<sup>5</sup></b>	Finat 9	5 N
8.	<b>Expected outdoor life span<sup>6</sup></b>	-	2 years laminated with a GEF laminated = 3 to 4 years
9.	<b>Temperature range</b>		
	At application	-	+10°C to +35°C
	At use	-	-5°C to +80°C
10.	<b>Colour back print</b>	-	Blank
11.	<b>Flammability</b>		
	Product is flame resistant, officially certified as "Class 1" BS 476 Part 7 (equivalent to "B1")		

## 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 Film 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

A Grafiprint UV-laminate, which is always necessary in case the print will be exposed to mechanical friction, can prolong the life span considerably, and can give the print a high-gloss or matt effect.

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.

The Grafiprint GEFUV film is not suited for use on latex printers.

## 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 (100x100mm), 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, and only refers to the film itself and its adhesive backing. However, this does not give any guarantee for the life of a printout, as this depends on too many other factors, such as the inks that are used. 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".