

## PRODUCT DATA SHEET

# GRAFIPRINT PRINT MEDIA FOR LARGE FORMAT PRINTING

## REFERENCE GEF-ES

RELEASE 15.08.2020

**GRAFITYP**  
makes you stick

### DESCRIPTION

Grafiprint GEF-ES is an ecological, pvc-free white matt GEF (Grafityp Ecology Film) with a special matt printable coating, which was developed to be used on all (eco)-solvent printers. The chlorine- and plasticizer free film comes with a water based semi-permanent adhesive.

### COMPOSITION

#### FILM

150µm white matt pvc-free GEF film with a special printable coating (thickness incl. print coating).

#### ADHESIVE

Semi-permanent pressure-sensitive water-based acrylic adhesive.

#### RELEASE LINER

Clay-coated paper of 135 g/m<sup>2</sup>

### APPLICATION

Grafiprint GEF-ES is perfectly suited for all possible indoor applications and short- to middle-term outdoor applications on non-corrugated surfaces.

### → INDOOR/OUTDOOR USE

### PRODUCT ADVANTAGES

- Good print quality.
- The product is perfectly safe when used indoors and contributes to a clean and safe living environment.

### CORRESPONDING LAMINATES

Grafiprint GEF-ES is preferably laminated with one of the following Grafiprint laminates:

- Grafiprint LAM121, LAM130 or LAM171

### PRODUCT SPECIFICATIONS

Technical properties

#### RELATIVE HUMIDITY

50 ± 5%

#### TEMPERATURE

23 ± 2°C

- 1 Thickness film**  
Thickness film + coating  
Thickness film + coating + adhesive + release liner
- 2 Weight film**  
Weight film + coating  
Weight film + coating + adhesive + release liner
- 3 Dimensional stability**
- 4 Gloss (maximum – meas. angle 60°)**
- 5 Adhesion strength after 20 minutes**  
Adhesion strength after 24 hours
- 6 Quickstick**
- 7 Outdoor life span**
- 8 Temperature range during application**  
Temperature range at use
- 9 Flammability**  
If applied on aluminium, glass, steel = self-extinguishing
- 10 Fire rating**  
CLASS 1 (UK – BS 476-7)

#### TEST METHOD

#### RESULT

ISO 4593	110µm 150µm 310µm
-	110 g/m <sup>2</sup> 150 g/m <sup>2</sup> 310 g/m <sup>2</sup>
Finat 14	< 0,2mm
ISO 2813	7 GU (gloss units)
Finat 1	3 N/25mm 5 N/25mm
Finat 9	5 N
-	2 years Laminated with a GEF laminat = 3 to 4 years
-	+10°C up to +35°C -5°C up to +80°C

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### STORAGE INSTRUCTIONS

All Grafiprint materials always have to be stored in their original packing and with the original protection flanges (preferably vertically).

In order to avoid any loss of quality, the Grafiprint print film should be stored in suitable conditions, i.e. at a temperature between 10/20°C and a relative humidity of 50%. Under these conditions Grafiprint materials can be stored for a period of two years.

### RECOMMENDED PRINTER SETTINGS

If Grafiprint media are used on (eco) solvent printers, temperature settings are extremely important. Depending on the ambient conditions, the amount of ink and the requested print quality, we advise a pre-heater temperature between 35°C and 45°C. The temperature can be raised, on condition that the material stays completely flat. Too high temperatures can lead to an inferior print quality and to colour differences, as the material will become softer and undulate. The same goes for the use of an after-heater (dryer). We advise an after-heater temperature that is about 5°C to 10°C higher than the pre-heater temperature, on condition that the material doesn't start undulating. In general we can say that the temperature of both heaters should be as high as possible, without the material showing any form of undulation.

### LAMINATING

A Grafiprint 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.

### 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 given only 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.

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

Subject to modifications.

### RECOMMENDED DRYING TIMES

It is extremely important that prints, made on an (eco) solvent printer, are left to dry sufficiently before they are laminated and/or applied. A good ventilation during the drying process is of utmost importance. For standard prints you need to take into account a drying time of 24 to 48 hours. For very dark prints or very high ink loads on the material, a drying time of 48 to 72 hours is required.

### INK AMOUNT

Large amounts of solvent ink on the material can activate the ink on the backside of the release liner. If the material is enrolled too quickly after printing, the print on the backside of the release liner may become visible in your printout.

### VINYL COLOUR

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 into consideration for this purpose consists of the first 5 numbers of the 7-digit batch number.

### LATEX PRINTERS

The Grafiprint GEF-ES film is not suited for use on latex printers.