

## PRODUCT DATA SHEET

# GRAFIPRINT PRINT MEDIA FOR LARGE FORMAT PRINTING

## REFERENCE LM112P

RELEASE 01.12.2020



### DESCRIPTION

Grafiprint LM112P is a monomeric calendered white glossy top coated PVC film with permanent adhesive, specially for use on solvent printers (eco/mild/hard), latex printers and UV printers.

### COMPOSITION

#### FILM

130µm monomeric calendered white glossy top coated PVC film (thickness incl. coating).

#### ADHESIVE

Permanent pressure-sensitive solvent-based acrylic adhesive with a high resistance against UV-radiation, chemical products and humidity.

#### RELEASE LINER

Clay-coated paper of 120 g/m<sup>2</sup>

### APPLICATION

Grafiprint LM112P is perfectly suited for all indoor applications and short to middle-term outdoor applications on non-corrugated surfaces. The film has been developed especially for "PRINT & CUT" applications where cutting immediately after printing (without any waiting time) is required, even with high ink loads.

## → INDOOR/OUTDOOR USE

### PRODUCT ADVANTAGES

- Good print quality
- Can be cut immediately after printing

### CORRESPONDING LAMINATES

Grafiprint LM112P is preferably laminated with one of the following Grafiprint laminates:

- Grafiprint M010P
- Grafiprint M011P

### PRODUCT SPECIFICATIONS

Technical properties

#### RELATIVE HUMIDITY

**50 ± 5%**

#### TEMPERATURE

**23 ± 2°C**

- 1 **Thickness vinyl + coating (1)**  
Thickness vinyl + coating + adhesive + release liner
- 2 **Elongation at break (production length) (2)**  
Elongation at break (cross)
- 3 **Dimensional stability (3)**
- 4 **Adhesion strength after 20 minutes (4)**  
Adhesion strength after 24 hours
- 5 **Quickstick (5)**
- 6 **Max. outdoor life span (unprinted) (6)**
- 7 **Temperature range during application**  
Temperature range at use
- 8 **Colour back print**
- 9 **Flammability**  
If applied on aluminium, glass, steel = self-extinguishing

(1) Average

(2) Minimum

(3) Maximum

(4) Average

(5) Average

(6) Northern-European conditions

### TEST METHOD

### RESULT

Din53370	130µm 305µm
Din53455	> 150% > 150%
Finat 14	< 1,00mm
Finat 1	13 N/25mm 15 N/25mm
Finat 9	4 N
-	Up to 4 years
-	+10°C up to +35°C -15°C up to +60°C
-	Grey

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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.

### 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.

### 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.

The expected outdoor life span refers to outdoor use under Central European conditions and to vertical applications, and only applies to the used film and adhesive. This does not give any guarantee for the life span of a print, as it depends on too many factors, such as the inks. 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 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.