

PRODUCT DATA SHEET

GRAFIPRINT PRINT MEDIA FOR LARGE FORMAT PRINTING

REFERENCE P231HT

RELEASE 01.09.2020

GRAFITYP
makes you stick

DESCRIPTION

Grafiprint P231HT is a polymeric calendered white matt structured PVC film (**Smeriglio** structure) with high tack adhesive, specially for use on solvent printers (eco/mild/hard), latex printers and UV printers.

COMPOSITION

FILM

215µm polymeric calendered white matt PVC film with SMERIGLIO structure.

ADHESIVE

Transparent high tack pressure-sensitive acrylic adhesive.

RELEASE LINER

White clay-coated paper of 120 g/m²

APPLICATION

Grafiprint P231HT is meant for indoor and outdoor wall decoration directly on plastered or lacquered walls, on plaster boards, partition walls,...

→ **INDOOR/OUTDOOR USE**

PRODUCT ADVANTAGES

Good print quality.

CORRESPONDING LAMINATES

Grafiprint P231HT is preferably not laminated.

PRODUCT SPECIFICATIONS

Technical properties

RELATIVE HUMIDITY

50 ± 5%

TEMPERATURE

23 ± 2°C

- Thickness vinyl (1)**
Thickness vinyl + adhesive + release liner
- Elongation at break (production length) (2)**
Elongation at break (cross)
- Dimensional stability (3)**
- Gloss (minimum – measuring angle 85°)**
- Adhesion strength after 20 minutes (4)**
Adhesion strength after 24 hours
- Quickstick (5)**
- Max. outdoor life span (unprinted) (6)**
- Temperature range during application**
Temperature range at use
- Colour back print**
- Flammability**
If applied on aluminium, glass, steel = self-extinguishing
- Fire rating**
BS1D0

(1) Average

(2) Maximum

(3) Average

(4) Average

(5) Central-European conditions

TEST METHOD

RESULT

Din53370	215µm
	375µm
Din53455	> 150%
	> 150%
Finat 14	< 0,50mm
Din67530	< 20 GU (gloss units)
Finat 1	12 N/25mm
	16 N/25mm
Finat 9	12 N
-	3 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.

APPLICATION WITH AN OVERLAP

Film that has been printed with (eco) solvent ink can be applied with an overlap, provided that the film has sufficiently dried and that the overlap has been done in the right way. This means that the overlapping parts have to be reheated and firmly pressed again after the application. For a film that has been printed with latex inks, we don't recommend application with an overlap.

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.

RECOMMENDED DRYING TIMES

Allow the print to dry sufficient before application, as the product's characteristics may not be the same as long as residual solvents have not evaporated. Required drying times may vary from 24 to 72 hours, depending on environmental conditions and the type and amount of ink.

INK AMOUNT

To achieve a good print result, we recommend printing with high amounts of ink, guaranteeing high colour saturation.

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.

SURFACE TESTING

We cannot guarantee adhesion on every kind of surface. We strongly recommend customers to test the appropriateness of the material and to conduct their own tests before application.