PRODUCT DATA SHEET

GRAFIPRINT PRINT MEDIA FOR LARGE FORMAT PRINTING

REFERENCE S53P

RELEASE 01.09.2020

DESCRIPTION

Grafiprint S53P is a special formula calendered white matt PVC film with permanent adhesive, specially for use on solvent printers (eco/mild/hard), latex printers and UV printers.

APPLICATION

Grafiprint S53P is perfectly suited for all indoor applications and outdoor applications up to 5 years on non-corrugated surfaces.

→ INDOOR/OUTDOOR USE

COMPOSITION

FILM

75µm special formula calendered white matt PVC film.

ADHESIVE

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

RELEASE LINER

White PE-coated paper of 130 g/m²

PRODUCT ADVANTAGES

Good print quality.

CORRESPONDING LAMINATES

Grafiprint S53P is preferably laminated with one of the following Grafiprint laminates:

- Grafiprint LAMS50
- Grafiprint LAMS55

PRODUCT SPECIFICATIONS

Technical properties

RELATIVE HUMIDITY

50 ± 5%

TEMPERATURE

23 ± 2°C

		TEST METHOD	RESULT
1	**Thickness vinyl (1)** **Thickness vinyl + adhesive + release liner**	Din53370	75µm 215µm
2	**Elongation at break (production length) (2)** **Elongation at break (cross)**	Din53455	> 150% > 150%
3	**Dimensional stability (3)**	Finat 14	< 0,40mm
4	**Adhesion strength after 20 minutes (4)** **Adhesion strength after 24 hours**	Finat 1	14 N/25mm 18 N/25mm
5	**Quickstick (5)**	Finat 9	4 N
6	**Max. outdoor life span (unprinted) (6)**	-	5 years
7	**Temperature range during application** **Temperature range at use**	-	+10°C up to +35°C -15°C up to +60°C
8	**Colour back print**	-	Grey
9	**Flammability** If applied on aluminium, glass, steel = self-extinguishing		

(1) Average (2) Maximum (3) Average (4) Average (5) Central-European conditions

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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.