PRODUCT DATA SHEET

GRAFIPRINT MEDIA FOR LARGE FORMAT PRINTING

REFERENCE FLOORPR

Released on 1st April 2018
PROVISIONAL SPECIFICATIONS

Description

Grafiprint FLOORPR is a monomeric calendered white print film with a special antiskid layer. The film can be printed with Solvent (eco/mild/hard), latex and UV printers. The film is provided with a permanent pressure-sensitive solvent-based acrylic adhesive. This adhesive is protected by a high quality silicone paper.

Composition

Film :	230 micron thick monomeric calendered white film with a special antiskid layer
Adhesive :	permanent pressure-sensitive solvent-based acrylic adhesive
Backing paper :	Clay coated paper of 120 g/m²

Usability

Grafiprint floor graphic print film FLOORPR can be used on most solvent (eco – mild – hard), latex and UV printers.

Application

The film was especially designed for creating prints that need to be applied on the floor. It comes with a special antiskid layer to limit the slip risk. Tests in accordance with British Standard 7976 indicate a low slip risk in dry conditions.
Grafiprint FLOORPR is meant for indoor use. In case the material is used outdoors, the antiskid characteristics can not be guaranteed due to wet conditions (e.g. when it rains). Please also be careful with indoor floor graphics that are wet.
Grafiprint FLOORPR can also be used for traditional vertical applications outdoors (not on the floor). In that case, the expected life span amounts to 1 to 2 years. When used indoors, the expected life span amounts to several years.
Classified R9.

Product Specifications

Technical properties at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C.

		Test method	Result
1.	**Thickness[1]**		
	Thickness vinyl	Din53370	230 micron
	Thickness vinyl + glue + paper	Din53370	380 micron
2.	**Elongation at break[2]**		
	In production length direction	Din53455	> ... %
	In cross direction	Din53455	> ... %
3.	**Dimensional stability[3]**	Finat 14	< 1 mm
4.	**Adhesion strength[4]**		
	After 20 minutes	Finat 1	5 N/25mm
	After 24 hours	Finat 1	7 N/25mm
5.	**Quickstick[5]**	Finat 9	5 N/25mm
6.	**Expected Outdoor life span[6]**	-	n.a.
7.	**Temperature range**		
	At application	-	+10°C to +35°C
	At use	-	-15°C to +60°C
8.	**Colour back print**	-	grey
9.	**Flammability**		
	If applied on aluminium, glass, steel = self-extinguishing		

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 Solvent Vinyl 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

Large amounts of solvent ink on the material can activate the ink on the backside of the material. If the material is enrolled too quickly after printing, the print on the backside of the material may become visible in your printout. Therefore we advise you to limit the amount of ink and to leave the prints to dry sufficiently before enrolling them.
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.

Recommended temperature settings

When printing on the Grafiprint print media, the temperature settings of the printer are extremely important. The following temperature settings can be considered as guide values :

- Solvent based inks (eco/mild/hard) : pre-heater 35-45°C, after-heater 40-50°C
- HP latex inks : drying 55°C, curing 90-110°C
- Mimaki latex inks : pre-heater 50°C, print 50°C, curing 50°C

Depending on the ambient conditions, the amount of ink and the requested print quality, these temperatures can vary slightly. The temperature settings can be raised, on condition that the Grafiprint material stays completely flat. A too high temperature can lead to an inferior print quality and to colour differences, because the material will become soft, as a result of which it might get damaged by the transport wheels of the printer, and because the material will undulate, as a result of which it could touch the print head.
If an after-heater (dryer) is used, we advise an after-heater temperature that is about 5°C to 10°C higher than the pre-heater temperature. But again, the material should not undulate as a result of a too high temperature setting.
In general, we can say the temperature of both heaters should be set as high as possible, without the material showing any form of undulation.

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. 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 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".