

## PRODUCT DATA SHEET

# GRAFIPRINT LAMINATES



## REFERENCE SOL

Reviewed on the 1<sup>st</sup> of July 2013

### Description

GrafiPrint SOL is a soft wear-resistant cadmium free monomeric calendered PVC film with a special antiskid coating, provided with a pressure-sensitive permanent acrylic glue. The glue is protected by a high-quality silicone paper. This seamless laminate has especially been created for protecting digital prints that need to be applied on the floor.

### Composition

- Film : 125 micron thick wear-resistant monomeric calendered vinyl film, provided with a special antiskid coating. The film shows an excellent resistance against chemical products, humidity, and dirt
- Glue : solvent-based pressure-sensitive permanent acrylic glue. This glue does not have an aggressive reaction on the printout
- Backing paper : siliconised clay-coated paper of 120 gr/m<sup>2</sup>

### Application

The GrafiPrint floor graphics laminate, reference SOL, was especially designed for prints that need to be applied on the floor. Tests in accordance with British Standard 7976 indicate a low slip risk in dry conditions.

The floor graphic laminate is meant for indoor use. In case the laminate 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.

The GrafiPrint floor graphics laminate, reference SOL, 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.

### Product Specifications

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

		Test method	Result
1.	<b>Thickness<sup>1</sup></b>		
	Thickness film	Din53370	125 micron
	Thickness film + glue + backing paper	Din53370	270 micron
2.	<b>Elongation at break<sup>2</sup></b>		
	In production length direction	Din53455	> 100 %
	In cross direction	Din53455	> 120 %
3.	<b>Dimensional stability<sup>3</sup></b>	Finat 14	< 1.00 mm
4.	<b>Adhesion strength<sup>4</sup></b>		
	After 20 minutes	Finat 1	14 N/25mm
	After 24 hours	Finat 1	20 N/25mm
5.	<b>Quickstick<sup>5</sup></b>	Finat 9	7 N
6.	<b>Expected outdoor life span<sup>6</sup></b>	-	1 to 2 years (vertical)
7.	<b>Temperature range</b>		
	At application	-	+5°C up to +40°C
	At use	-	-20°C up to +70°C
8.	<b>Colour back print</b>	-	grey
9.	<b>Slip risk</b>		
	In dry conditions	BS 7976	low slip risk
10.	<b>Flammability</b>		
	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 laminate 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.

## 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 in mm. This value is measured by applying the film on aluminium (10x10cm), 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. The expected outdoor life span refers only to the UV-resistance and the wear-resistance of the material. For more detailed information we also refer to our general "Grafiprint Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".