

## PRODUCT DATA SHEET



# GRAFIPRINT MEDIA FOR SOLVENT PRINTERS

## REFERENCE B440

Reviewed on the 21<sup>st</sup> of October 2015



### Description

Grafiprint PVC Frontlit Banner Material with reference B440 is a soft, exceptionally strong, flame retardant and water resistant laminated PVC material in matt or glossy finish, printable at one side, especially for use on solvent printers (eco/mild/hard). Can also be used on latex printers and UV printers, and for screenprinting.

### Composition

PVC frontlit banner film with a thickness of 350 µm, for indoor and outdoor applications.

### Usability

Grafiprint laminated PVC frontlit Banner Material B440 is meant for all common solvent printers. Can also be used on latex printers and UV printers, and for screenprinting.

### Application

Grafiprint laminated PVC frontlit Banner Material B440 has been developed especially for short to middle-term outdoor applications, such as billboards, building advertising, etc..., and for almost unlimited indoor applications.

### Product Characteristics

- applications for indoor and outdoor use
- high tear resistance
- high print quality
- flame retardant

### 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><br>Thickness banner   | Din53370       | 350 micron                             |
| 2. | <b>Weight<sup>2</sup></b><br>Weight banner   | Din53455       | 440 gr/m <sup>2</sup>                  |
| 3. | <b>Base fabric</b>   | -              | PVC<br>yarn 300Dx500D<br>density 18x12 |
| 4. | <b>Elongation at break<sup>3</sup></b><br>In production length direction<br>In cross direction | ISO 527-1:1993 | > 32 %<br>> 23 %                       |
| 5. | <b>Tearing strength</b><br>In production length direction<br>In cross direction                | ISO 527-1:1993 | > 42 N/5cm<br>> 33 N/5cm               |
| 6. | <b>Expected outdoor life span<sup>4</sup></b>  | -              | 1 year                                 |
| 7. | <b>Flammability</b>  | -              | Flame retardant                        |

### 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 banner material 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

We advise you to leave the solvent prints to dry sufficiently before enrolling them or laying them on top of each other.

As the colour of the material can differ slightly for each production run, we advise you not to use materials 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 solvent media, the temperature settings of the printer 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. This temperature 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.

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. 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 weight of the Grafiprint materials may vary slightly. The indicated value is an average value, obtained from a series of measurements.

**3)**  
The elongation at break of the Grafiprint materials may vary slightly. The indicated value is a minimum value, obtained from a series of measurements.

**4)**  
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".