



## Grafiprint Low-Solvent Media LTYV

Released on 1st July 2004



### Description

Grafiprint Tyvek Banner Material reference LTYV is an exceptionally strong, tear free and indelible polyethylene material for indoor and outdoor applications, provided with a special one-sided matt printable coating, which was developed to be used on low-volatile solvent printers (such as the Mutoh Rockhopper, the Roland SolJet, etc...).

### Application

Grafiprint Tyvek Banner Material LTYV has been especially designed for making colourfull banners (to be used at sports happenings, at presentations, point-of-sales, etc...). Grafiprint Tyvek Banner Material LTYV can be used on all low-volatile solvent printers.

### Composition

260 µm (by the technical data of the manufacturer of the raw material) thick Tyvek banner film (thickness incl. coating) for indoor and outdoor applications, with or without laminate.

### Product Advantages/Disadvantages

- applications for indoor and outdoor use, with or without laminate
- high tear resistance
- as a result of the uneven structure of the material, drying differences may occur in the print from time to time. This is completely inherent to the composition of the material.

### Product Specifications

Technical properties at a relative humidity of  $50 \pm 5\%$  and a temperature of  $23 \pm 2^\circ\text{C}$

		Test method	Result
1.	<b>Thickness<sup>1</sup></b> Thickness banner + coating	Din53370	260 micron
2.	<b>Weight<sup>2</sup></b> Weight banner + coating	Din 53455	110 gr/m <sup>2</sup>
3.	<b>Outdoor life span<sup>3</sup></b>	-	1 to 2 years

### 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%.

## Remarks

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

## Recommended temperature settings

When printing on the Grafiprint solvent and low-volatile 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, in which a tolerance of 10 % is acceptable.
- 2) The weight of the Grafiprint materials may vary slightly. The indicated value is an average value, obtained from a series of measurements, in which a tolerance of 10 % is acceptable.
- 3) The outdoor life span refers to outdoor use under Central European conditions, and was tested under the most extreme conditions. Under normal conditions, a longer life span may be expected. Tropical conditions, or the use near chemical emission, may have a detrimental effect on the life span. A Grafiprint UV-laminate, which is always necessary in case the print will be exposed to mechanical friction, can prolong the life span considerably, and can give the print a high-gloss or matt effect.