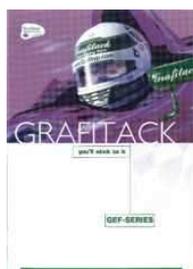


PRODUCT DATA SHEET



GRAFITACK GEF SERIES GLOSSY COLOURS

REFERENCES GEF00 to GEF91

Released on 23rd August 2010

PROVISIONAL SPECIFICATIONS



Description

Grafitack GEF series (glossy) is a soft ecological **Grafityp Ecology Film** without any chlorine or plasticizers, that comes with a water based pressure-sensitive permanent acrylic adhesive. This adhesive is protected by a high-quality silicone paper. A good recognizability is guaranteed by the purple print on the material's backing paper.

Composition

- Film : 70 micron thick glossy GEF (Grafityp Ecology Film)
 Adhesive : water based pressure-sensitive permanent acrylic adhesive, with a high resistance against UV-radiation, chemical products and humidity
 Backing paper : siliconised white craft paper of 120 gr/m²

Application

Grafitack GEF series has been especially developed for outdoor applications (4 to 5 years) on an even surface (e.g. advertising campaigns, seasonal offers, construction work signs, etc...). Furthermore, the Grafitack GEF series can be used for all kinds of indoor applications, such as sign making in shops or at trade shows, in warehouses, etc...

Product advantages

Grafitack GEF series is extremely flexible. The film shows hardly any shrinkage, and is completely free of chlorine and plasticizers, so no chlorine gases are released when the film is incinerated.

Product specifications

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

	Test method	Result
1. Thickness¹ Thickness film Thickness film + glue + backing paper	Din53370 Din53370	70 micron 210 micron
2. Elongation at break² In production-length direction In cross direction	Din53455 Din53455	> 600 % > 600 %
3. Dimensional stability³	Finat 14	< 0,25 %
4. Degree of gloss Minimum (measuring angle 20°)	Din67530	50 %
5. Adhesion strength⁴ After 20 minutes After 24 hours	Finat 1 Finat 1	12 N/25mm 15 N/25mm
6. Quickstick⁵	Finat 9	5 N
7. Expected outdoor life span⁶	-	4-5 years
8. Temperature range At application At use	- -	+10°C to +35°C -15°C to +60°C
9. Colour back print	-	purple

Storage instructions

All Graftack 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 Graftack materials 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 Graftack materials can be stored up to two years.

Remarks

In order to achieve an optimal result, we advise you to clean the surface with isopropanol and/or to use a low-tack application tape !

Overlaps on GEF (PVC on GEF and/or GEF on GEF) can lead to lower adhesive strength values.

Because of the special composition of the colour pigments, the reference GEF91 (gold) can have a small pinhole in the material occasionally. This is typical of the production method, and can never be the object of a complaint.

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 Graftack 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 elongation at break of the Graftack 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 %. This value is measured by applying the film on aluminium, 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. 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 life span can also differ, depending on the colour (due to the pigmentation).