PRODUCT DATA SHEET

GRAFITACK ER SERIES MATT COLOURS

REFERENCES ER01 to ER91

Realized on 1st July 2006

Description

The Grafitack ER series is an ecological soft cadmium-free GEF (Grafityp Ecology Film), provided with a water-based pressure-sensitive removable acrylic adhesive. This adhesive is protected by a high-quality silicone paper. A good recognizability is guaranteed by the orange print on the material's backing paper.

Composition

Film : 80 micron thick matt GEF (Grafityp Ecology Film)
Adhesive : removable pressure-sensitive water-based acrylic adhesive
Backing paper : siliconised white kraft paper of 120 gr/m²

Application

The Grafitack ER films have been especially developed for indoor applications (such as sign making in shops or trade shows, etc…) and for short term outdoor applications. These films can easily be removed, without leaving any glue residues on the surface, thanks to their removable adhesive.

Product advantages

The Grafitack ER films are completely free of chlorine and plasticizers

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 Thickness vinyl + glue + backing paper	 Din53370 Din53370	 80 micron 220 micron
2.	**Elongation at break**[2] In production-length direction In cross direction	 Din53455 Din53455	 > 550 % > 450 %
3.	**Dimensional stability**[3]	Finat 14	< 0.10 %
4.	**Degree of gloss** Minimum (measuring angle 60°) Maximum (measuring angle 60°)	 Din67530 Din67530	 8 % 22 %
5.	**Adhesion strength**[4] After 20 minutes After 24 hours	 Finat 1 Finat 1	 7 N/25mm 10 N/25mm
6.	**Quickstick**[5]	Finat 9	7 N
7.	**Expected outdoor life span**[6]	-	2 years
8.	**Temperature range** At application At use	 - -	 +10°C to +35°C -15°C to +60°C
9.	**Colour back print**	-	orange
10.	**Flammability** If applied on aluminium, glass, steel = self-extinguishing		

Storage instructions

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

Remarks

You can NOT print on the Grafitack ER films !
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 !

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 Grafitack 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 Grafitack 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/sec. 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).