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**MATERIAL SAFETY DATA SHEET**


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CAM/CAM VINYL (P00 to P91)

Revision Date: 01/07/2006

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING**

- 1.1. PRODUCTS IDENTIFICATION:** CAD/CAM Vinyl (P00 to P91)
- 1.2. USE OF SUBSTANCE:** For short term applications (2 to 3 years) perfect for commercial use on shop windows, for party decorations, seasonal offers, publicity panes, etc. Also for all kinds of indoor applications, such as sign making in shops, at Trade shows, in warehouses, etc
- 1.3. COMPANY:** Grafityp UK Ltd  
 Grafitack House  
 103 Mariner  
 Lichfield Road Industrial Estate  
 Tamworth  
 Staffordshire  
 B79 7UL  
 Telephone Number: 01827 300500  
 Information provided by: 01827 51333
- 1.4 EMERGENCY TELEPHONE:** 01827 300500

**2. HAZARDS IDENTIFICATION**

No information supplied

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Film:**

70 micron thick monomeric calendered PVC film

**Adhesive:**

Permanent pressure-sensitive water-based acrylic adhesive, with a high resistance against UV-radiation, chemical products and humidity

**Backing Paper:**Siliconised white kraft paper 120 gr/m<sup>2</sup>

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

	Test Method:	Result:
<b>Thickness<sup>1</sup></b>		
Thickness vinyl	Din 53370	70 micron
Thickness vinyl + glue + backing paper	Din 53370	210 micron
<b>Elongation at Break<sup>2</sup></b>		
In production-length direction	Din 53455	> 135%
In cross direction	Din 53455	> 135%
<b>Dimension Stability<sup>3</sup></b>	Finat 14	< 1.00%

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<b>Degree of Gloss</b> Minimum (measuring angle 60°)	Din67530	65 P40 – 40% Metallic – 35%
<b>Adhesion Strength<sup>4</sup></b> After 20 minutes After 24 hours	Finat 1 Finat 1	11 N/25mm 15 N/25mm
<b>Quickstick<sup>5</sup></b>	Finat 9	7 N
<b>Expected Outdoor Life Span</b>	-	3 years (colour 2-3 years) P00 – 1 year
<b>Temperature Range:</b> At application At use	- -	+10°C to +35°C -15°C to +60°C
<b>Colour Back Print</b>	-	Light Green
<b>Flammability</b> If applied on aluminium, glass, steel = self- extinguishing		

**4. FIRST-AID MEASURES**

No information supplied

**5. FIRE-FIGHTING MEASURES**

No information supplied

**6. ACCIDENTAL RELEASE MEASURES**

No information supplied

**7. HANDLING AND STORAGE**

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 2 years.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

No information supplied

**9. PHYSICAL AND CHEMICAL PROPERTIES**

No information supplied

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**10. STABILITY AND REACTIVITY**

No information supplied

**11. TOXICOLOGICAL INFORMATION**

No information supplied

**12. ECOLOGICAL INFORMATION**

No information supplied

**13. DISPOSAL CONSIDERATIONS**

No information supplied

**14. TRANSPORT INFORMATION**

No information supplied

**15. REGULATORY INFORMATION**

No information supplied

**16. OTHER INFORMATION**

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!

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.

- ❖ 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.
- ❖ The elongation at break of the Grafitack materials may vary slightly. The indicated value is a minimum value obtained from a series of measurements.
- ❖ The dimensional stability is the shrinkage of the unprinted material in %. The 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.

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- ❖ 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.
- ❖ The “Quickstick” is the direct adhesion strength, measured on glass. The indicated value is an average value, obtained from a series of measurements.
- ❖ 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 on 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).