

**Description**

Self adhesive material for plotter. Monomeric gloss finish vinyls, suitable for 3 years indoor/outdoor use, with good flexibility and conformability. 33 colours available. Permanent acrylic with excellent water resistance.

Printable in solvent and UV screenprinting.

For medium term indoor & outdoor signs. Flammability DIN 752000: self-extinguishing resistance against chemicals and solvents DIN 51958. Available width 1220 mm. All quoted life times are based on typical results and apply only to vertical exposure in temperate, non-extreme conditions.

**Available from stock in 300mm, 380mm, 610mm and 1220mm widths.**

**Technical Data****Face Material**

Type	Monomeric vinyl
Colour & Finish	33 available colours
Shrinkage	<1%
Weight	95g/m <sup>2</sup>
Thickness	70μ

**Adhesive**

Reference	Reference AP 900
Type	Acrylic permanent
Minimum Application Temperature	+10°C
Service Temperature	-30C/+80C
Shear	Very High
Tack FTM9	Medium N/inch <sup>2</sup>
FinAdh FTM2	High N/inch

**Release Backing**

Type	1 side clay-coat
Colour & Finish	White
Weight	120g/m <sup>2</sup>
Thickness	108μ

**Technical Data** (continued)**Characteristics**

<b>Chemical Resistance:</b>	Detergent	No effect (24 Hrs)
	Gasoline	No effect (1 Hrs)
	SAE20 Motoroil	No effect (24 Hrs)
	10% HCl	No effect (10 min)
	10% NH <sub>4</sub> OH	No effect (10 min)

**Processing****Storage:**

The material must be stored at a temperature of 22°C +/- 2°C and 50% +/- 5% of Relative Humidity.  
Do not expose to direct sun light.

The area must be dry and clean. Please keep the material in the original packaging when not used in order to protect it from dust and contaminations.

All values presented in pdf data sheet are typical. Ritrama's data sheets provide only the general characteristics of the Product. It is the responsibility of the Customer and/or End User to determine that the Product is fit for the purpose for which the Customer and/or End User wish to use it. Ritrama can give no guarantee beyond the information given in the data sheet..

## Description

These specially produced monomeric vinyl films have been developed for computer cutting applications where excellent processing properties are required.

The materials have optimum stability and light fastness and are ideal for indoor and outdoor applications. They are particularly suitable for exhibition displays, shop signs and advertising/promotional campaigns. They are available with a gloss finish (permanent adhesive).

Available from stock in 610mm and 1220 mm.

## Technical Data

Characteristic	Test Method	Typical Value
Film Thickness	ISO 4591:1992	0.075mm
Adhesive Thickness	ISO 4591:1992	0.020mm
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		120gsm Rehumidified Kraft
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	> 24 Mpa
Elongation	ISO 527:1996	> 180%
Adhesion 20 min @ 180°	FINAT FTM1/Stainless Steel	550N/m (permanent)
Adhesion 24 hours @ 180°	FINAT FTM1/Stainless Steel	700N/m (permanent)
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	>16 hours
Dimensional Stability	FTM14/Aluminium	<0.75mm (150 x 150mm/48 hours/70°C)
Gloss at 20°	ASTM 523-89	>50% (Gloss)
Gloss at 60°	ASTM 523-89	
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1000 hours
Weathering	Vertical Exposure/Mid Europe	Black/White/Clear 3 - 5 years Colours 2 - 4 years
Rivet Testing	KPMF ST 22	No Cracking
Application Temperature	Clean, dry surface	+8°C to 25°C
Service Temperature		-30°C to + 80°C
<b>Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel (Permanent Adhesive)</b>		
Aluminium - Untreated		950 N/Metre
Aluminium - Anodised		910 N/Metre
Stainless Steel		700 N/Metre
Chromed Steel		710 N/Metre
Polyurethane		460 N/Metre
Glass		650 N/Metre
Acrylic Sheet		650 N/Metre
ABS Sheet		610 N/Metre
<b>Resistance to various liquids after application and conditioned for 24 hours at 23°C. Results examined 1 hour after test.</b>		
Humidity	24 hours at 38°C and 100%	No Effect
Water (Distilled)	24 hours at 32°C	Slight Edge Lifting
Sea Water	1 year Mid Tide (BS 5609:1986)	No Effect
Reference Fuel	1 hour at 23°C	Very Slight Film Softening
Diesel Fuel	1 hour at 23°C	No Effect
SAE Motor Oil	24 hours at 23°C	No Effect
Antifreeze/Water (1:1)	24 hours at 23°C	No Effect
Detergent Solution	8 hours at 65°C	Slight Edge Lifting
Hydraulic Oil	24 hours at 23°C	No Effect
Battery Acid	24 hours at 23°C	No Effect

Although we have good control of the colour production at KPMF, it is advisable to avoid using different batches of material for the same end application.

**Technical Data** (continued)**General**

KPMF films should not be applied to unsound surfaces or to surfaces which may subsequently crack, peel, outgas or are of low surface energy. It is recommended that any application surface should have an energy level in excess of 40 dyne/cm. (Polyolefins should be in excess of 45 dyne/cm). The above data shows typical properties and should not be taken as a guarantee for performance. Purchasers should determine the suitability of each product prior to its intended use. Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids etc. may eventually cause deterioration. Durability is based on middle European exposure conditions.

Actual performance will depend on substrate preparation, exposure conditions and application of marking.

**Important**

Kay Premium Marking Films are produced under stringent manufacturing conditions. The information and typical values shown are based upon research believed to be reliable and are provided without guarantee and do not constitute a warranty. The values are not for use in specifications. Ink and paint systems can affect the performance of film and also the adhesive properties, as can application techniques. Users are advised to ensure that performance and reliability are not compromised by determining the suitability of each product prior to its intended use.

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