



**Product Description**

Premium quality cast vinyl films designed for specific applications, offering unique properties and exceptional characteristics.

*K74100 Series Luminescent Cast Vinyl* - designed for use in all emergency sign and marking applications requiring excellent retained brightness. Printable, conformable, and durable, K74100 Series meets the requirements of DIN 67510-1 for luminosity.

*K74000 Series Fluorescent Cast Vinyl* - designed for use in all exterior marking and signage applications where fluorescent properties are required. They are printable, conformable, and durable. K74032 Fluorescent Yellow also available at 1524mm width on structured liner providing easy application, perfect for Chapter 8 vehicle marking. *\*Please note this product is not recommended as a complete vehicle wrap product.\**

**Features**

- Premium quality cast PVC film construction
- Range includes luminescent and fluorescent colours
- Suitable for printing

**Recommended Uses**

- Exit signs; graphics on emergency equipment; police & emergency vehicles; graphics on trucks & recreational vehicles

**Face Film**

100µm - 130µm Premium Cast

**Adhesive**

40g/m<sup>2</sup> white or grey permanent solvent-based acrylic

**Release Liner**

Smooth or structured double-sided PE

**Widths**

1220mm & 1524mm

**Durability**

Up to 3 years (vertical exposure, mid Europe)

**Shelf Life**

2 years

**Products Available**

- Please refer to our website or swatches to see the full range.

Physical Characteristics		
Properties	Test Method	Typical Value
Film Thickness	ISO 4591:1992	100-130µm
Elongation	ISO 527-3:2018	>75%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5mm
Gloss 60°	ASTM D523-14 (2018)	>85
20 minute 180° Peel	FTM1/Painted Steel	>380N/m
24 hour 180° Peel	FTM1/Painted Steel	>530N/m
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	>1500 hours for luminous >500 hours for yellow & red fluorescent >250 hours for other fluorescent colours
<b>Outdoor Weathering</b>		
Vertical exposure, mid Europe		
Luminous	-	3 years
Yellow & Red Fluorescent	-	1 year
Other Fluorescent Colours	-	6 months
<b>Temperature Range</b>		
Application Temperature	-	Minimum +10°C
Service Temperature	-	-40°C to +90°C
<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	No effect
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

## Product Usage Guide

- 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).
- Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids etc. may eventually cause deterioration. Actual performance will depend on substrate preparation, exposure conditions and application of marking.
- Although we have good control of the colour production of KPMF products at our multiple locations, as with all other manufacturers' products, customers should be aware that there may be subtle variances between samples, swatches and production materials, so therefore it is advisable to avoid using different batches of material for the same end application to avoid possible colour shifts between the batches.
- Application should be onto a clean, dry surface at a minimum temperature of +10°C.
- Shelf life is 2 years when stored out of direct sunlight, at a temperature of 15-23°C and a relative humidity of 30-70%.

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## Product Warranty

Kay Premium Marking Films products are produced under careful quality control and are warranted to be fit for the purpose and free from defect in material and workmanship. Any material shown to be defective to our satisfaction at the point of sale shall be replaced free of charge. Kay Premium Marking Films Limited's liability to the purchaser shall in no circumstances exceed the cost of the amount of the defective material supplied.

There is no guarantee made for ease or speed of graphic removal, removal from improperly cured paint, removal from oxidized or chalked substrates, or from horizontally exposed outdoor applications. Due to the large variety of available substrate finishes, it is advisable to fully evaluate small areas particularly after printing prior to complete applications.

The data included on this datasheet shows typical properties and should not be taken as a guarantee for performance.

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