



**Product Description**

KPMF's original and classic vehicle wrap products are available in a range of gloss and matt colours. These 100µm films are superior quality soft hybrid PVC films formulated by using the latest advances in PVC and pigment technology to offer exceptional dimensional stability and excellent long-term durability for applications which require exterior exposure of 5 to 7 years. They are suitable for long term applications in outdoor and indoor environments, with the 100µm thickness offering excellent cutting and weeding properties. The combination of soft vinyl formulation and specific adhesive design offers excellent conformability and adhesion which allows the film to be removed without leaving adhesive transfer. The material is designed to be removable, under controlled conditions, up to a period of three years. White VWS is particularly recommended for all types of digital printing (except water based ink-jet).

**Features**

- Available in a range of gloss and matt colours
- Suitable for indoor and outdoor use
- Excellent cutting and weeding properties
- Excellent conformability and adhesion

**Recommended Uses**

- Total vehicle wrap; vehicle graphics; sign and decal applications

**Face Film**

100µm Polymeric Calendered

**Adhesive**

18 or 25g/m<sup>2</sup> clear semi-permanent solvent-based acrylic;  
25 or 29g/m<sup>2</sup> white permanent solvent-based acrylic

**Release Liner**

Single-sided PE smooth paper or double-sided PE structured paper

**Widths**

1524mm

**Durability**

Up to 7 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	100µm
Elongation	ISO 527-3:2018	>150%
Dimensional Stability (48 hours/70°C)	FTN14/Aluminium	<0.5mm
Gloss 60°	ASTM D523-14 (2018)	Gloss: >90 Matt: <20 (K88016: >50)
20 minute 180° Peel	FTM1/Painted Steel	>440N/m
24 hour 180° Peel	FTM1/Painted Steel	>530N/m
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	>1000 hours
<b>Outdoor Weathering</b>		
Black, White, Clear	-	7 years
Colours	-	5 years
K88093, K89093, K89084	-	3 Years
<b>Temperature Range</b>		
Application Temperature	-	Minimum +18°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 manufacturer's 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.
  - Products that have the metallic finish are considered to be special products in view of their pigmentation. In order to achieve the metallic effect, special pigments must be used. The pigmentation causes the surface sheen to be generally more uneven. The stability of these products on weathering tests and post cleaning also varies, depending on the pigmentation. It is recommended that no harsh solvents are used to clean the PVC and, should these be required, then a small section should be tested first. In general, results are much less stable than the other non-metallic products in the same series. Depending on the type of application (i.e. horizontal or vertical base), the life expectation of the film is lower, particularly in the case of higher atmospheric temperatures. The reduction in stability during weathering tests becomes noticeable as it causes increasing discolouration and the loss of mechanical characteristics. Care should be taken when completing applications using metallic finished products. If the adhesive side of the vinyl is allowed to overlap and make contact with the face of the film, this could result in aluminium particles being lifted from the face of the film leading to a slight change to the perceived colour and finish being observed.
  - Specific techniques must be used when applying K88000 series films to vehicles – specialised training is available. It is the responsibility of the applicator to ensure that the paint system is suitable for the application of K88000 series vinyl and that it is in a fit condition for the application and removal of self-adhesive vinyl. A separate application guide is available upon request. Kay Premium Marking Films do not accept any liability for paint failures incurred during the application or removal of K88000 series vinyl.
  - For best results, application should be performed in a clean, dry workshop at an ambient temperature of 18-24°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 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.

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. This product has been warranted to provide clean removability, under controlled conditions, up to a period of 3 years from a range of substrates. Clean removability is deemed with less than 30% adhesive residue when using heat and chemical removal methods. Exceptions to the removal warranty are those applied to the following: pre-existing graphics, paint which is not properly bonded to the substrate and custom paint applications.

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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