



**Product Description**

VWS IV (Vinyl Wrapping System) is a range of premium quality cast PVC films specifically developed for vehicle wrapping. These premium cast products are formulated using the latest advances in chemical and pigment technology to offer exceptional dimensional stability and long-term durability. The combination of soft cast vinyl formulation and specific adhesive design offers excellent conformability into recesses, and adhesion which allows the film to be removed using heat and/or chemicals up to a period of three years from a range of substrates (subject to exceptions covered in the warranty).

**Features**

- Premium quality cast PVC film construction
- Extensive range of vibrant colours & effects
- Range includes gloss, matt, absolute matt & satin finishes
- Effects including iridescent, sparkling starlight, dramatic frozen & subtle pearlescent are available
- Suitable for long term outdoor environments

**Recommended Uses**

- Total vehicle cover; vehicle graphics; signs; decals; marine application (above the waterline)\*

**Face Film**

80µm - 110µm Premium Cast

**Adhesive**

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

**Release Liner**

Single-sided PE smooth or double-sided PE structured

**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.
- Custom colours can be matched to order (subject to minimum order quantities)

Physical Characteristics		
Properties	Test Method	Typical Value
Film Thickness	ISO 4591:1992	80-110µm
Elongation	ISO 527-3:2018	>75%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5 mm
Gloss 60°	ASTM D523-14 (2018)	Gloss: >85    Matt: <25    Absolute Matt: <5
20 minute 180° Peel	FTM1/Painted Steel	>350N/m
24 hour 180° Peel	FTM1/Painted Steel	>475N/m
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	2000 hours
<b>Outdoor Weathering</b>		
Zone 1 Vertical	-	7 years
Zone 1 Horizontal	-	3 years
Zone 2 Vertical	-	5 years
Zone 2 Horizontal	-	2 years
Zone 3 Vertical	-	3 years
Zone 3 Horizontal	-	1 year
Florida/Arizona Horizontal	-	2 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.
- The use of primers is not recommended as they may react negatively with KPMF adhesives.
- When using metallic finish films, always keep the application direction of the film consistent with the orientation of the film from the roll when applying to the vehicle.
- 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.
- 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.

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.

\*KPMF do not offer a warranty for marine applications under the waterline.

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

D7.3.6

Issue 1 19/02/2026