

## K87021 Series Vehicle Wrapping VWS V

### Product Description

KPMF's carbon fibre is a textured 150 micron polymeric PVC vinyl with a permanent acrylic adhesive that replicates the carbon fibre look.

Perfect for the creation of a distinctive and contemporary finish; it can be used on vehicles for complete vehicle wraps or to create high impact when used to highlight specific features.

With ultimate properties for durability, it is recommended for long term signage applications, for interior and exterior applications, and with excellent conformability it is perfect for use on smooth or contoured surfaces.

### Recommended Uses

- Complete vehicle wraps
- Highlight specific vehicle features

### Products Available

- K87021 Black Carbon Fibre

### Face Film

150µm Textured Polymeric Calendered

### Adhesive

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

### Release Liner

- Single-sided PE – printed VWS logo
- Double-sided PE structured – printed Airelease logo

### Widths

1524mm

### Durability

5 years outdoors  
(vertical exposure, mid-Europe)

### Shelf Life

2 years  
(out of direct sunlight, between 15°C and 23°C, 30% to 70% relative humidity)

### Physical Characteristics

	Test Method	Typical Value
Film Thickness	ISO 4591:1992	150µm
Elongation	ISO 527-3:2018	>90%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5mm
20 minute 180° Peel	FTM1/Painted Steel	>440 N/m
24 hour 180° Peel	FTM1/Painted Steel	>535 N/m
Flammability		Self-extinguishing
Artificial Weathering	Xenon Arc	4750 hours
<b>Outdoor Weathering</b>	Vertical Exposure/Mid Europe	5 years
	Florida/Arizona	4 years

### Temperature Range

Application Temperature

Minimum +10°C

Service Temperature

-40°C to +90°C

### Resistance to various liquids after application and conditioned for 24 hours at 23°C. Results examined 1 hour after test

Humidity	7 day humidity exposure	No effect
Water (Distilled)	10 day water immersion	No effect
Diesel Fuel	Immersion	No effect
SAE Motor Oil		No effect

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## 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.

Application temperature onto clean, dry surface Min +10°C

Specific techniques must be used when applying "VWS K87021 Series 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 "VWS K87021 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 "VWS K87021 Series" vinyl.

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### Product Warranty

*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.*

*Kay Premium Marking Films 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 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 excellent long term removability up to 3 years, using appropriate techniques (see application guide), with minimal residual adhesive which can be removed easily with commercial removal products. 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 paint finishes, it is advisable to fully evaluate small areas particularly after printing prior to complete applications.*

*The data included on the Data sheet shows typical properties and should not be taken as a guarantee for performance.*

ISO 9001 · IATF 16949