



Data sheet Vehicle Wrapping VWS V K87021 Series

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

Products available

K87021 Gloss Black Carbon Fibre

Physical Characteristics

	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	150µm
Elongation	ISO 527:1996	>90%

Adhesive

Clear permanent Cross-Linking Acrylic solvent based adhesive.

Adhesive properties

Adhesive Type	Clear
Adhesive Thickness	25 g/m ²
Adhesion to painted steel 20 Mins/180°	>440 N/m
Adhesion to painted steel 24 Hrs/180°	>535 N/m

Release Liner

Single Sided PE Printed Black VWS

Double Sided PE printed Airelease

Widths

1524 mm



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Durability

Flammability	Self-Extinguishing	Self- Extinguishing
Artificial Weathering	Xenon Arc	4750 hours
Weathering	Florida	4 Years
	Arizona	4 Years
Service Temperature		-20°C to +90°C
Humidity	7 day humidity exposure	No Effect
Water (Distilled)	10 day water Immersion	No Effect
Diesel Fuel	Immersion	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 also varies, depending on the pigmentation. However, in general results are much less stable than the other no metallic products in 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 discoloration 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.

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.

Storage

Shelf life (before application) Two years, out of direct sunlight between 15°C and 23°C and 30 to 70 % relative humidity



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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 clean removability, under controlled conditions, up to a period of three 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 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.

