



K87021 Black Carbon Fibre – VWS V

TECHNICAL & PERFORMANCE INFORMATION



K87021

K87021 Black Carbon Fibre

KPMF's new generation 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.

The Airelease liner offers increased levels of repositioning which assist with the ease of application in achieving a bubble free result.

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.

CHARACTERISTICS	TEST METHOD	TYPICAL VALUES from Mini PPAP EX1878
Film Thickness	ISO 4591:1992	0.145 mm
Adhesive Thickness	ISO 4591:1992	25 g/m ²
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		145gsm Double Sided PE
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	16 N/mm ²
Elongation	ISO 527:1996	90 %
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	500 N/m
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	650 N/m
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	>16hours
Low Speed Release	FINAT FTM3	<10.7 N/m
Flammability		Self Extinguishing
Artificial Weathering		5000 hours. No detrimental effects, rating of 4-5 grey scale
24 months Arizona	Atlas Xenon Arc	Ongoing
24 months Florida		Ongoing
Application Temperature (Dry Method)	Clean, dry surface	+8°C to 25 °C
Service Temperature		-20°C to +90 °C
Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel		
Aluminium - Untreated		1,100 N/Metre
Aluminium - Anodised		1,210 N/Metre
Stainless Steel		850 N/Metre
Chromed Steel		925 N/Metre
Polyurethane		580 N/Metre
Glass		850 N/Metre
Acrylic Sheet		850 N/Metre
ABS Sheet		780 N/Metre

APPLICATION:

Specific techniques must be used when applying K87021 Airelease to vehicles, an application guide is available on request. It is the responsibility of the applicator to ensure that the paint system is suitable for the application of K87021 Airelease vinyl and that it is in a fit condition for the application and removal of self-adhesive vinyl.

Kay Premium Marking Films do not accept any liability for paint failures incurred during the application or removal of this vinyl.

Some restrictions will apply to OEM applications.

Although we have good control of the colour production at KPMF, it is advisable to avoid using different batches of material for the same end application.

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). The above data shows typical properties and should not be taken as a guarantee for performance. Purchasers should determine the suitability of each product prior to its intended use. Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids etc. may eventually cause deterioration. Durability is based on middle European exposure conditions. Actual performance will depend on substrate preparation, exposure conditions and application of marking.

IMPORTANT

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.

WARRANTY

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.

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