



Data Sheet K71000 Series Premium Cast Vinyl VWS IV Overlaminates

Product Description

The K71000 Series is a range of luxury and innovative visual effect overlaminate films, available in a number of sparkling starlights and delicate pearlescent finishes. The gloss and matt films offer an opportunity to produce exciting and unique finishes when overlaminated onto any of the KPMF vehicle wrap product range.

Features

- Overlamination films permanently enhance and protect solid colours and printed media
- Sparkling starlight and subtle pearlescent finishes
- Premium quality cast PVC film construction
- Suitable for long term outdoor environments
- Produced using solvent based acrylic adhesive systems

Products available

K75202 Gloss Clear	30µm	K71401 Matt Pink Starlight	60µm
K75203 Matt Clear	30µm	K71402 Matt Gold Starlight	60µm
		K71403 Matt Pacific Blue Starlight	60µm
K71301 Pink Starlight Gloss	60µm		
K71302 Gold Starlight Gloss	60µm		
K71303 Pacific Blue Starlight Gloss	60µm	K71311 Green Pearlescent Gloss	50µm
K71304 Rainbow Starlight Gloss	60µm	K71312 Blue Pearlescent Gloss	50µm
K71306 Silver Starlight Gloss	60µm	K71313 Indigo Pearlescent Gloss	50µm
K71307 Copper Starlight Gloss	60µm	K71314 Magenta Pearlescent Gloss	50µm

Physical Characteristics

	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	See above
Elongation	ISO 527:1996	Clear Films > 75% Special Effect Films >50%
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.4 mm
Gloss 60°	ASTM 523-89	Gloss >85 Matt <15

Adhesive

Clear semi permanent cross linking acrylic solvent based adhesive

Adhesive properties

Adhesive Thickness 25g/m²

Adhesion to stainless steel 20 Mins/180°

Clear Films >500 N/Metre
Special Effect Films >350 N/Metre
(Gloss & Matt Films)

Adhesion to stainless steel 24 Hrs/180°

Clear Films >700 N/Metre
Special Effect Films >530 N/Metre
(Gloss & Matt Films)

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Release Liner

Clear Films - Single side PE Printed black VWS
 Special Effects – DSPE Printed Grey KPMF
 Matt PET Non printed

Widths

1524mm

Durability

	Zone 1		Zone 2		Zone 3	
	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal
Gloss	7 years	3 years	5 years	2 years	3 years	1 year
Matt	7 years	3 years	5 years	2 years	3 years	1 year

Escalated Weathering

Flammability: Self-Extinguishing

Artificial Weathering: Atlas Xenon Arc, 2000 hours minimum

Weathering – Gloss & Matt: Horizontal Exposure/Florida and Arizona, 3 Years - ongoing

Service Temperature: -40°C to 90°C

Escalated weathering is based on Florida and Arizona exposure conditions

Resistance to various liquids after application of a 25mm strip of vinyl to stainless steel and conditioned for 24 hours at 23°C prior to immersion. Results examined 1 hour after test.

Humidity (100%)	24 hours at 38°C (100°F)	No effect
Water (Distilled)	24 hours at 32°C (90°F)	No effect
SAE Motor Oil	24 hours at 23°C (73°F)	No effect
Antifreeze/Water (1:1)	24 hours at 23°C (73°F)	No effect



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Product Usage guide

Overlaminated vinyl specifically developed for use with Vehicle wrap products to achieve exciting and unique wraps. For use in the digital imaging industry to permanently enhance and protect printed media.

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.

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 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 +20°C

Storage

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

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.

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