



Data Sheet Overlaminates Cast Vinyl K71000/K75000 Series

Product Description

These premium quality cast vinyls have been specially developed as over-lamination films to permanently enhance and protect the printed media, with exceptional stabilisation providing reliable exterior durability.

KPMF also offer a range of luxury and innovative visual effect overlaminates available in a number of sparkling starlights and delicate pearlescents finishes. The gloss and matt films offer an opportunity to produce exciting and unique finishes when over-laminated onto any of the KPMF vehicle wrap product ranges.

The complete range of premium over-laminating products are produced using solvent based acrylic adhesive system.

Products available

K75202 Gloss Clear	30µm	K71401 Pink Starlight Matt	60µm
K75203 Matt Clear	30µm	K71402 Gold Starlight Matt	60µm
		K71403 Pacific Blue Starlight Matt	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	Clear – 30µm Pearlescent - 50µm Starlight - 60µm
Elongation	ISO 527:1996	Clear Films >75% Special effect Films >50%
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	0.4mm
Gloss 60°	ASTM 523-89	Gloss >85 Matt <25

Adhesive

Clear Permanent Cross-Linking Acrylic solvent based.

Adhesive properties

Adhesive Thickness 25g/m²

Adhesion to stainless steel 20 Mins/180°

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

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Adhesion to stainless steel 24 Hrs/180°

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

Release Liner

Clears - SSPE Printed Black VWS
Special Effects – DSPE Printed Grey KPMF

Widths

1524 mm

Durability

Flammability Self-Extinguishing
Artificial Weathering Atlas Xenon Arc

Weathering - Gloss & Matt Vertical Exposure/Mid Europe
Clears 7 Years
Special Effects Ongoing

Durability is based on middle European exposure conditions.

Service Temperature -40°C to +90°C

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	24 hours at 38°C and 100%	Unaffected
Water (Distilled)	24 hours at 32°C	Unaffected
Diesel Fuel	1 hour at 23°C	Unaffected
Antifreeze/Water (1:1)	24 hours at 23°C	Unaffected
Hydraulic Oil	24 hours at 23°C	Spot tests have no effect to vinyl

Product Usage guide

Overlaminates vinyl specially developed for use with Vehicle wrap products to achieve exciting and unique vehicle wraps.

For use in the digital imaging industry to permanently enhance and protect printed media.



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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 +10°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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