



# Data sheet Premium Speciality Cast Vinyl K74000 / K75100 Series

## Product Description

Premium quality cast vinyls designed for specific applications, offering unique properties and exceptional characteristics.

### K74100 Series Luminescent Cast Vinyl

Designed for use in all emergency sign and marking applications requiring excellent retained brightness. Perfect for graphics on emergency equipment and exit signs. Printable, conformable and durable, K74100 Series meets the requirements of DIN 67510PI for luminosity.

### K74000 Series Fluorescent Cast Vinyl

Designed for use in all exterior marking and signage applications where fluorescent properties are required. The films were developed for use on Police and Emergency vehicles. Printable, conformable and durable the K74000 Series are suitable for graphics on trucks, recreational vehicles and automobiles.

### K74500 Series Hi Tack Cast Ultra Destruct Vinyl (UDS)

Developed for use in all areas where tamper evidence, security and durability of information is paramount. The K74500 Series is used extensively for security seals of utility meters, identification of automotive and other high value parts, automotive safety information labels, tagging of electronic components and general packaging seals for sensitive products. Offering increased adhesion properties the K74500 Series give excellent tamper proof properties even on typical, low energy surfaces. The destructibility of these films has been designed to enable conversion at good press speeds with the product becoming tamper proof within 20 minutes of application. Testing is advised before use.

### K75100 Glitter Cast Vinyl

A range of bright glittering products designed for use in all exterior marking and signage applications where an additional sparkle effect is required. Perfect for graphics on equipment and signage, can be applied to smooth, flat and gently contoured surfaces.

### K74200 Series Cast Polyvinyl Difluoride

Premium quality cast polyvinylidene fluoride films are intended for use in all exterior aircraft and automotive applications for decals and vacuum formed parts. The films have the ultimate properties for outdoor durability and are suitable for badges, decals and graphics by original equipment manufacturers for uses on aircraft, trucks, recreational vehicles and automobiles. Very conformable the K74200 Series can be used on smooth, textured and contoured surfaces. End users have include OEMs aftermarket.

## Products available

K74111 White Luminescent

K74131 Yellow Luminescent

K74031 Yellow Fluorescent

K74041 Orange Fluorescent

K74051 Red Fluorescent

K74052 Fuchsia Fluorescent

K74071 Green Fluorescent

K74501 Clear Gloss UDS

K74511 White Gloss UDS

K74512 White Matt UDS

K75150 Black Glitter

K75151 Red Glitter

K75152 Pink Glitter

K75153 Forest Green Glitter

K75154 Turquoise Glitter

K75155 Royal Blue Glitter

K75156 Dark Blue Glitter

K75157 Lilac Glitter

K75158 Silver Glitter

K75159 Gold Glitter

K74201 Clear Gloss PVDF

K74292 Pearl Gloss PVDF

K74202 Clear Low Gloss Satin PVDF

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## Physical Characteristics

	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	Luminescent 130µm Fluorescent 100µm Ultra Destruct (UDS) 50µm Glitter 110µm PVDF 50µm
Elongation	ISO 527:1996	Luminescent >75% Fluorescent >75% Ultra Destruct (UDS) <5% Glitter >75% PVDF 50 Micron >180%
Gloss 60°	ASTM 523-89	Gloss >85 Matt <20 PVDF Gloss >95

## Adhesive properties

	Luminescent	Fluorescent	UDS	Glitter
Adhesive Type	<b>Pigmented</b>	<b>Pigmented</b>	<b>Clear</b>	<b>Clear</b>
Adhesive Thickness	40g/m <sup>2</sup>	40g/m <sup>2</sup>	18/25g/m <sup>2</sup>	25g/m <sup>2</sup>
Adhesion to painted steel 20 Mins/180°	>380 N/m	>380 N/m	FILM BREAKS	>435 N/m
Adhesion to painted steel 24 Hrs/180°	>530 N/m	>530 N/m	FILM BREAKS	>450 N/m
Release Liner	PE Coated Printed KPMF Logo	PE Coated Printed KPMF Logo	Super Calendered Kraft	PE Coated Printed KPMF Logo
Widths	1220 mm	1220 mm	1220 mm	1220 mm



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## Durability

Flammability

Self-Extinguishing

Artificial Weathering

Atlas Xenon Arc

>1000 hours  
>250 hours Fluorescents  
>2000 hours Glitters  
>2000 hours PVDF  
>1500 hours Luminescent  
>2000 hours UDS

Durability is based on middle European exposure conditions.

Service Temperature -40°C to 90°C

## Product Usage guide

Typical application for outdoor durability, for graphics on original equipment identification, building signage and vehicle graphics to include trucks, recreational vehicles and automobiles. They are also widely used for train liveries, boats and as temporary livery on aircraft.

The materials are very conformable, being able to be used on smooth, textured and contoured surfaces, and are available in a wide range of colours including metallic.

Custom colour matching is offered to suit specific requirements. (Subject to minimum quantities).

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

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## Data sheet Premium Speciality Cast Vinyl K74000 / K75100 Series

### 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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