



# Data sheet Digital Cast Vinyl K75200 Series

## Product Description

These premium quality cast vinyl films have been designed for digital printing using latex and solvent based inks. They are perfect for digitally printed vehicle wrapping applications where adhesion in recesses is of high importance.

The 60 micron matt white vinyl produces outstanding results when printed and the 30 micron clear over laminate, available in a gloss or matt version, offers enhanced stabilisation to ensure optimum exterior durability and protection from the harmful effects of UV and other environmental contaminants.

The products lower initial adhesive tack offers excellent repositionability and ease of application. The grey adhesive offers added opacity and its bond strength steadily increases to its ultimate level, but remains long term removable from OEM paint surfaces. KPMF's Airelease liner helps achieve a faster, bubble free application, increasing overall efficiency and productivity. The liner is double sided polyethylene coated which ensures excellent layflat characteristics in a variety of environments.

## Products available

Matt White Cast (60µm)	K75213
Gloss Clear Cast Over laminate (30µm)	K75202
Matt Clear Cast Over laminate (30µm)	K75203

## Physical Characteristics

	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	Matt White – 60µm Gloss Clear – 30µm Matt Clear – 30µm
Tensile	ISO 527:1996	> 13.5N/mm <sup>2</sup>
Elongation	ISO 527:1996	>75%
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	< 0.4mm
Gloss 60°	ASTM 523-89	Matt < 20 Gloss > 85

## Adhesive

Over laminates - Clear Permanent Cross-Linking Acrylic solvent based adhesive.

Matt White - Grey Repositionable Cross-Linking Acrylic solvent based with low initial tack to aid repositionability. The adhesive strength builds over a 24 hour period.

## Adhesive properties of Matt White

Adhesive weight	29 g/m <sup>2</sup>
Adhesion to painted panel 20 Mins/180°	> 450 N/m
Adhesion to painted panel 24 Hrs/180°	> 500 N/m
Adhesion to painted panel 72 Hrs/180°	> 500 N/m



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## Release Liner

130g/m<sup>2</sup> Double Sided PE Printed Airelease

## Widths

1524 mm

## Durability

Artificial Weathering	Atlas Xenon Arc	500 hours when over laminated, still on test
Weathering	Vertical Exposure/Mid Europe	7 years when over laminated

Durability is based on middle European exposure conditions.

Service Temperature tests are ongoing

### 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	Loss of adhesion when totally immersed, however spot tests have no effect to vinyl

## 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.

Application temperature onto clean, dry surface Min +15°C



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### 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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