



**K75400 Series Iridescent Cast Vinyl - VWS IV (Semi Permanent Adhesive)**

VWS (Vinyl Wrapping System) IV is a range of Visual Effects cast PVC films

K75400 Iridescent products are 85 micron dual cast PVC films specifically developed for vehicle wrapping where a novel colour flip is required after application. They are formulated using the latest advances in chemical and pigment technology to offer exceptional dimensional stability and long term durability.

They are suitable for applications in outdoor and indoor environments, with the 85 micron thickness offering excellent cutting and weeding properties. The combination of soft vinyl formulation and specific adhesive design offers excellent conformability and adhesion which allows the film to be removed using heat and/or chemicals up to a period of three years from a range of substrates subject to exceptions covered in the warranty.

Typical applications include total vehicle cover, vehicle graphics, signs and decal applications.

The film is available as:-

K75464	Purple/Green
K75465	Purple/Black
K75466	Purple/Blue
K75492	Gold/Red

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	85 micron
Adhesive Thickness	ISO 4591:1992	18 micron
Adhesive Type		Clear Semi Permanent Cross-Linking Acrylic
Release Liner		Single sided PE Coated Printed Black
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>13.5 N/mm <sup>2</sup>
Elongation	ISO 527:1996	>75%
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	600 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	750 N/Metre
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	>16 hours
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.5mm
Gloss 60°	ASTM 523-89	>85
Flammability		Self Extinguishing
Artificial Weathering	Atlas Xenon arc	>1000 hours
Weathering	Vertical Exposure/Mid Europe	5-7 Years
Application Temperature	Clean, dry surface	+8°C to +25°C
Service Temperature		-40°C to +90°C

**Resistance to various liquids after application and conditioned for 24 hours at 23°C. Results examined 1 hour after test.**

Humidity	24 hours at 38°C and 100%	No Effect
Water (Distilled)	24 hours at 32°C	No Effect
Sea Water	1 year Mid Tide (BS 5609:1986)	No Effect
Reference Fuel	1 hour at 23°C	Very Slight Film Softening
Diesel Fuel	1 hour at 23°C	No Effect
SAE Motor Oil	24 hours at 23°C	No Effect
Antifreeze/Water (1:1)	24 hours at 23°C	No Effect
Detergent Solution	8 hours at 65°C	No Effect
Hydraulic Oil	24 hours at 23°C	No Effect
Battery Acid	24 hours at 23°C	No Effect

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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