## **Product Data Sheet**



# K75000 Series Premium Metallic Matt Cast Vinyl VWS IV

## **Product Description**

VWS IV (Vinyl Wrapping System) is a range of premium quality cast PVC films specifically developed for vehicle wrapping. These premium cast products are formulated using the latest advances in chemical and pigment technology to offer exceptional dimensional stability and long-term durability.

The combination of soft cast vinyl formulation and specific adhesive design offers excellent conformability into recesses, 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).

## **Recommended Uses**

Vehicle wrapping

#### **Features**

- Vibrant Matt Colours
- Premium quality cast PVC film construction
- Suitable for long term outdoor environments
- KPMF's Airelease technology enables bubble-free flow out during installation

#### Face Film

85 - 100µm Cast

#### Adhesive

- 18g/m² clear semi-permanent solventbased acrylic
- 25g/m² clear semi-permanent solventbased acrylic

#### Release Liner

- Single-sided PE printed VWS logo
- Double-sided PE structured printed Airelease logo

## Widths

1524mm

#### Durability

Up to 7 years outdoors (vertical exposure, climate zone 1)

**Typical Value** 

#### Shelf Life

2 years

(out of direct sunlight, between 15°C and 23°C, 30% to 70% relative humidity)

#### **Products Available**

•	K75501 Matt Iced Silver Titanium	80µm	<ul><li>K75320 Matt Anthracite</li></ul>	80µm
•	K75502 Matt Iced Orange Titanium	100µm	<ul><li>K75548 Matt Lightning</li></ul>	80µm
•	K75505 Matt Iced Blue Titanium	100μm	<ul><li>K75549 Matt Anodised Bronze</li></ul>	100μm
•	K75506 Matt Iced Red Titanium	100μm	<ul><li>K75550 Matt Welsh Slate</li></ul>	80µm
•	K75534 Matt Iced Yellow Titanium	100µm	<ul> <li>K75551 Matt Magnetic Black</li> </ul>	100μm
•	K75539 Matt Siberian Pearl	100µm	<ul><li>K75552 Matt Aurora Pearl</li></ul>	100μm
•	K75540 Matt Crystalline White	100µm	<ul><li>K75554 Matt Autumn Fire</li></ul>	100μm
•	K75542 Matt Viper Green	100µm	<ul><li>K75556 Matt Nero Flare</li></ul>	80µm
•	K75543 Matt Java Brown	100µm	<ul><li>K75561 Matt Elan Blue</li></ul>	80µm
•	K75544 Matt Trenton Blue	100µm	<ul> <li>K75568 Matt Iced Amethyst Titanium</li> </ul>	100μm
•	K75545 Matt Russet Red	100µm		

## **Physical Characteristics**

Film Thickness ISO 4591:1992 See above Elongation ISO 527-3:2018 >75%

Dimensional Stability (48 FTM14/Aluminium <0.5 mm hours/70°C)

**Test Method** 

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Gloss 60°	ASTM D523-14 (2018)	<25
20 minute 180º Peel	FTM1/Painted Steel	>440 N/m
24 hour 180º Peel	FTM1/Painted Steel	>535 N/m
Flammability		Self-extinguishing
Artificial Weathering	Xenon Arc	2000 hours

Artificial Weathering	Xenon Arc	Xenon Arc			2000 hours			
Outdoor Weathering	Zo	Zone 1		Zone 2		Zone 3		
Gloss & Matt	<u>Vertical</u> 7 years	Horizontal 3 years	<u>Vertical</u> 5 years	Horizontal 2 years	Vertical 3 years	<u>Horizontal</u> 1 year		
	Florida/Ari	Florida/Arizona, Horizontal			> 2 years			
Temperature Range								
Application Temperature					Minimum +10ºC			
Service Temperature					-40°C to +90°C			
Resistance to various liquids after application and conditioned for 24 hours at 23°C. Results examined 1 hou after test								
Humidity	24 hours a	t 38°C and 10	0%	No effect				
Water (Distilled)	24 hours a	t 32°C		No effect				
Diesel Fuel	1 hour at 2	1 hour at 23°C			No effect			
SAE Motor Oil	24 hours a	24 hours at 23°C			No effect			
Antifreeze/Water (1:1)	24 hours a	t 23°C		No effect				

## **Product Usage Guide**

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

Suitable for applications in outdoor and indoor environments, offering excellent cutting and weeding properties.

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

#### **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.

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