

Release Liner

K75400/K75500 Premium 100micron Double Cast Vinyl - VWS IV TECHNICAL & PERFORMANCE INFORMATION

K75000

145gsm Double Sided PE Structured Liner

K75400 Gloss/K75500 Matt Premium Double Cast Vinyl – VWS IV (Airelease Liner)

VWS IV (Vinyl Wrapping System) is a range of premium quality cast PVC films specifically developed for vehicle wrapping. 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 100 micron double cast thickness offering excellent cutting and weeding properties. 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.

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

This range is available as:- K75440 Gloss Magnetic Black K75540 Matt Crystalline White

K75441 Gloss Excelsior Blue K75542 Matt Viper Green

K75543 Matt Java Brown K75544 Matt Trenton Blue K75545 Matt Russet Red K75551 Matt Magnetic Black K75552 Matt Aurora Pearl

 CHARACTERISTIC
 TEST METHOD
 VALUE

 Film Thickness
 ISO 4591:1992
 0.100mm

 Adhesive Thickness
 ISO 4591:1992
 0.025mm

Adhesive Thickness ISO 4591:1992 0.025mm
Adhesive Type Clear permanent Cross-Linking Acrylic

Storage
Two years, out of direct sunlight at 23°C and 50% humidity

Tensile ISO 527:1996 >13.5 N/mm² Elongation ISO 527:1996 >75%

Heating and Stretching the Film 140% (100mm stretched to 140mm)

Adhesion 20 mins/180° FINAT FTM1/Stainless Steel >440 N/Metre
Adhesion 24 Hrs/180° FINAT FTM1/Stainless Steel >535 N/Metre
Static Shear (25 x 25mm) FINAT FTM8/Stainless Steel >16 hours

Dimensional Stability FTM14/Aluminium (150 x 150mm/48 hours/70°C)

Flammability
Self Extinguishing
Artificial Weathering
QUV
>1000 hours

Artificial Weathering QUV >1000 hours Weathering Vertical Exposure/Mid Europe 10-12 years Rivet Testing KPMF ST 22 No Cracking Application Temperature Clean, dry surface $+8^{\circ}\text{C}$ to $+5^{\circ}\text{C}$ Service Temperature Clean Cracking $+8^{\circ}\text{C}$ to $+90^{\circ}\text{C}$

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

Humidity24 hours at 38°C and 100%No EffectWater (Distilled)24 hours at 32°CNo EffectSea Water1 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 24 hours at 23°C SAE Motor Oil No Effect No Effect Antifreeze/Water (1:1) 24 hours at 23°C Detergent Solution 8 hours at 65°C No Effect 24 hours at 23°C No Effect Hydraulic Oil 24 hours at 23°C No Effect Battery Acid

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.

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.

Issue 1 TECHNICAL DATA SHEET
K75000 Premium Double Cast 100μ Vinyl – VWS IV
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Approved:

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