



Product Description

Developed for use in all areas where tamper evidence, security and durability of information is paramount. Offering increased adhesion properties, the K74500 Series gives excellent tamper-proof properties even on 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.

Features

- Excellent tamper-proof properties
- Permanent solvent-based adhesive

Recommended Uses

- Security seals on utility meters; identification of automotive & other high-value parts; automotive safety information labels; tagging of electronic components; general packaging seals for sensitive products

Face Film

50µm Cast

Widths

1220mm

Adhesive

18g/m² clear permanent solvent-based acrylic

Durability

Up to 5 years (vertical exposure, mid Europe)

Release Liner

Double-sided PE

Shelf Life

2 years

Products Available

- Please refer to our website or swatches to see the full range.

Properties	Physical Characteristics	
	Test Method	Typical Value
Film Thickness	ISO 4591:1992	50µm
Elongation	ISO 527-3:2018	<5%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5 mm
Gloss 60°	ASTM D523-14 (2018)	Gloss: >85 Matt: <20
20 minute 180° Peel	FTM1/Stainless Steel	Film breaks
24 hour 180° Peel	FTM1/Stainless Steel	Film breaks
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	2000 hours
Outdoor Weathering		
Vertical Exposure – Mid Europe	-	4-5 years
Temperature Range		
Application Temperature	-	Minimum +10°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
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

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 should be onto a clean, dry surface at a minimum temperature of +10°C.
- Shelf life is 2 years when stored out of direct sunlight, at a temperature of 15-23°C and a relative humidity of 30-70%.

Product Warranty

Kay Premium Marking Films products 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 products 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's liability to the purchaser shall in no circumstances exceed the cost of the amount of the defective material supplied.

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 substrate finishes, it is advisable to fully evaluate small areas particularly after printing prior to complete applications.

The data included on this datasheet shows typical properties and should not be taken as a guarantee for performance.

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