



**K74500 Series Hi Tack Cast Ultra Destruct Vinyl (UDS)**

These premium quality cast vinyl films have been specially developed with a Hi Tack, solvent acrylic adhesive for use in all areas where tamper evidence, security and durability of information is paramount. The increased adhesion properties give excellent tamper proof properties even on typical, low energy surfaces although thorough testing is advised before use. The destructibility of these films has been designed to enable conversion at good press speeds and yet ensure, that once the product has been applied, it will become tamper proof within twenty minutes. The product is used extensively for security seals of utility meters, identification of automotive and other high value parts, automotive safety information labels, tagging of electronic components and general packaging seals for sensitive products.

The films are available as:

- K74512 White Matt
- K74592 Silver Gloss

Both products are subject to minimum order quantities.

The hi tack acrylic adhesive is protected by a 90gsm super calendered glassine for rotary applications and a 140gsm layflat liner for sheets.

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	0.050mm
Adhesive Thickness	ISO 4591:1992	0.025mm
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		90gsm Glassine/140gsm Layflat Kraft
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>12.0 N/mm <sup>2</sup>
Elongation	ISO 527:1996	<5%
Adhesion 20 Mins/90°	FINAT FTM2/Stainless Steel	Film Breaks
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	Film Breaks
Adhesion 24 Hrs/90°	FINAT FTM1/Stainless Steel	Film Breaks
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	Film Breaks
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	N/A
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.4mm
Gloss 60°	ASTM 523-89	> 70%
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1,000 hours
Weathering	Vertical Exposure/Mid Europe	6 - 8 years
Rivet Testing	KPMF ST 22	N/A
Application Temperature	Clean, dry surface	+8°C to 25°C
Service Temperature		-40°C to + 90°C
<b>Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel</b>		
Aluminium - Untreated		Film Breaks
Aluminium - Anodised		Film Breaks
Stainless Steel		Film Breaks
Chromed Steel		Film Breaks
Polyurethane		Film Breaks
Glass		Film Breaks
Acrylic Sheet		Film Breaks
ABS Sheet		Film Breaks
<b>Resistance to various liquids after application and conditioned for 24 hours at 23°C. Results examined 1 hour after test.</b>		
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.