



**K52111/K52211 Double Sided White Polymeric Calendered Vinyl**

These superior quality, soft polymeric vinyl films are formulated using the latest advances in PVC and pigment technology to offer improved dimensional stability and excellent long term durability. They are intended for use as a transfer medium in digital printing. They are suitable for use in all exterior marking and signage applications.

The 75 micron thickness offers excellent conformability and adhesion to a variety of substrates. The material is supplied with two liners – Paper and Polyester.

Typical applications include vehicle graphics, signs, window graphics, equipment identification and all general sign and decal applications which require an outdoor exposure of 5 – 7 years.

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	0.075mm
Adhesive Thickness	ISO 4591:1992	K52111 0.025mm/0.025 K52211 0.018mm/0.025mm
Adhesive Type		Clear Permanent Cross Linking Acrylic
Release Liner		150gsm Plain PE/50-75µ Clear Polyester
Winding		Polyester wound on outside of roll (Permanent adhesive)
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>20.0 N/mm <sup>2</sup>
Elongation	ISO 527:1996	>50%
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	Permanent 650 N/Metre Removable 540N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	Permanent 850 N/Metre Removable 630N/Metre
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	Permanent > 16 hours Removable (Not Applicable)
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.5mm
Gloss 60°	ASTM 523-89	>70%
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1000 hours
Weathering	Vertical Exposure/Mid Europe	
White/Clear		5-7 years
Rivet Testing	KPMF ST 22	N/A
Application Temperature	Clean, dry surface	+8°C to 25°C
Service Temperature		-40°C to + 105°C
<b>Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel (Permanent)</b>		
Aluminium – Untreated		1,100 N/Metres
Aluminium – Anodised		1,210 N/Metres
Stainless Steel		850 N/Metres
Chromed Steel		925 N/Metres
Polyurethane		580 N/Metres
Glass		850 N/Metres
Acrylic Sheet		850 N/Metres
ABS Sheet		780 N/Metres

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.