



**K79000 Series Cast Translucent Vinyl**

These premium quality cast vinyl films are intended for use in all interior and exterior marking and signage applications.

The films have the ultimate properties for outdoor durability and are suitable for graphics on original equipment identification, building signage and vehicle graphics. They are particularly suitable for vacuum forming applications.

The materials are very conformable, being able to be thermoformed after application, and are available in a range of colours. Custom colour matching is offered to suit specific requirements.

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	0.053mm
Adhesive Thickness	ISO 4591:1992	0.025mm
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		150gsm PE
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>12 N/mm <sup>2</sup>
Elongation	ISO 527:1996	>75%
Adhesion 20 Mins/90°	FINAT FTM2/Glass	450 N/Metre
Adhesion 20 Mins/180°	FINAT FTM1/Glass	570 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Glass	700 N/Metre
Static Shear (25 x 25mm)	FINAT FTM8/Glass	>16 hours
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.4mm
Gloss 60°	ASTM 523-89	<40%
Flammability		Self Extinguishing
Artificial Weathering	Atlas Xenon Arc Weatherometer	>2000 hours
Weathering	Vertical Exposure/Mid Europe	
Black/White		10-12 years
Colours		10-12 years
Metallics		Not applicable
Rivet Testing	KPMF ST 22	Not applicable
Application Temperature	Clean, dry surface	+ 8°C to 25°C
Service Temperature		- 40°C to + 95°C
<b>Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel</b>		
Glass		700 N/Metre
Acrylic Sheet		700 N/Metre
ABS Sheet		580 N/Metre
<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	15 mins at 23°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
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

**CAUTION:**

When producing large, single colour signs ensure that material from the same batch is used in order to prevent differences in transmission and reflection.

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.