



#### Description

These premium quality cast vinyl films are intended for use in all 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 to include trucks, recreational vehicles and automobiles. They are also widely used for train liveries, boats and as temporary livery on aircraft. End users include Ford, GM and national airlines.

The materials are very conformable, being able to be used on smooth, textured and contoured surfaces, and are available in a wide range of colours including metallic. Custom colour matching is offered to suit specific requirements. (Subject to minimum quantities).

Available from stock in 610mm and 1220 mm.

## **Technical Data**

Characteristic	Test Method	Typical Value
Film Thickness Adhesive Thickness Adhesive Type Release Liner	ISO 4591:1992 ISO 4591:1992	0.050mm 0.025mm Clear Permanent Cross-Linking Acrylic 150gsm Kraft Printed Blue
Storage Tensile Elongation Adhesion 20 Mins/90° Adhesion 20 Mins/180°	ISO 527:1996 ISO 527:1996 FINAT FTM2/Stainless Steel FINAT FTM1/Stainless Steel	Two years, out of direct sunlight at 23°C and 50% humidity >13.5 N/mm <sup>2</sup> >75% 450 N/Metre 570 N/Metre
Adhesion 24 Hrs/180° Static Shear (25 x 25mm) Dimensional Stability (150 x 150mm/48 hours/70°C) Gloss 60°	FINAT FTM1/Stainless Steel FINAT FTM8/Stainless Steel FTM14/Aluminium ASTM 523-89	700 N/Metre >16 hours <0.4mm >85%
Flammability Artificial Weathering Weathering Rivet Testing Application Temperature	Atlas Xenon Arc Vertical Exposure/Mid Europe KPMF ST 22 Clean, dry surface	Self Extinguishing >2000 hours Metallics 5 years No Cracking +8°C to 25°C
Service Temperature -40°C to + 90°C   Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel -40°C to + 90°C   Aluminium - Untreated 860 N/Metre		
Aluminium - Anodised Stainless Steel Chromed Steel Polyurethane Glass		940 N/Metre 700 N/Metre 690 N/Metre 400 N/Metre 700 N/Metre
Acrylic Sheet ABS Sheet	nnlication and conditioned for 24 hour	700 N/Metre 580 N/Metre rs at 23°C. Results examined 1 hour after test.
Humidity 24 hours at 38°C and 100% Water (Distilled) 24 hours at 32°C Sea Water 1 year Mid Tide (BS 5609:1986) Reference Fuel 1 hour at 23°C Diesel Fuel 1 hour at 23°C SAE Motor Oil 24 hours at 23°C Antifreeze/Water (1:1) 24 hours at 23°C		No Effect No Effect Very Slight Film Softening No Effect No Effect No Effect No Effect No Effect
Detergent Solution 8 hours at 65°C Hydraulic Oil 24 hours at 23°C Battery Acid 24 hours at 23°C		No Effect No Effect

Although KPMF have good control of the colour production, it is advisable to avoid using different batches of material for the same end application.

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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.





# Technical Data (continued)

### General

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.

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