

Description

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.

The wide range of light-fast colours are suitable for long term marking applications in exterior and interior environments. The 75 micron thickness offers excellent cutting and weeding properties, conformability and adhesion to a variety of substrates.

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.

Available from stock in 610mm and 1220 mm.

Technical Data

Characteristic	Test Method	Typical Value
Film Thickness	ISO 4591:1992	0.075mm
Adhesive Thickness	ISO 4591:1992	0.025mm
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		140gsm Kraft Printed Blue
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>20.0 N/mm ²
Elongation	ISO 527:1996	>50%
Adhesion 20 Mins/90°	FINAT FTM2/Stainless Steel	520 N/Metre
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	650 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	850 N/Metre
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	>16 hours
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	Black/White/Clear 7 years Colours 5 years Metallics 5 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
Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel		
Aluminium - Untreated		1,100 N/Metre
Aluminium - Anodised		1,210 N/Metre
Stainless Steel		850 N/Metre
Chromed Steel		925 N/Metre
Polyurethane		580 N/Metre
Glass		850 N/Metre
Acrylic Sheet		850 N/Metre
ABS Sheet		780 N/Metre
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
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 KPMF have good control of the colour production, it is advisable to avoid using different batches of material for the same end application.

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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