



**K57293 Bright Chrome Vinyl (Aluminium)**

This high gloss silver metalised PVC vinyl has been specially developed for automotive applications, Bright Chrome gives a mirror type finish to vinyl film. The chrome effect is produced by vacuum metalising pure aluminium under the vinyl surface to give a flexible film suitable for curved surfaces. (NB Chrome is not used in any part of the process).

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	0.075mm
Adhesive Thickness	ISO 4591:1992	30 g/m <sup>2</sup>
Adhesive Type		Clear Permanent Cross-Linking Acrylic
Release Liner		0.075 mm antistatic matt backed polyester
		Plain White SSPE
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	50 N/mm <sup>2</sup>
Elongation	ISO 527:1996	30 %
Adhesion 20 mins/ 180° at room temperature	FINAT FTM1/Stainless Steel	700 N/m
Adhesion 24 hours/ 180° at room temperature	FINAT FTM1/Stainless Steel	800 N/m
Adhesion 48 hours/180° at room temperature	FINAT FTM1/Stainless Steel	900 N/m
Adhesion 10 Min/180° at 80°C	FINAT FTM1/Stainless Steel	1000 N/m
Static Shear	FINAT FTM8/Stainless Steel	25 hours
Dimensional Stability (150 x 150mm/ 48 hours/70°)	FTM14/Aluminium	< 0.600 mm
Rivet Testing	KPMF ST22	No Cracking
Gloss 60°	ASTM 523-89	Very High Gloss
Flammability		Self Extinguishing
Artificial Weathering	Atlas Xenon Arc	> 500 hours
Heat Resistance at 100°C for 1 hour		Minor loss of lustre
Application Temperature	Clean, dry surface	21 – 32 °C
<b>Adhesion Properties to Various Substrates for 24 hours at 23°C/180° peel.</b>		
Polystyrene - Smooth		1000 N/m
Glass		950 N/m
ABS - Textured		150 N/m
uPVC		950 N/m
High Density Polyethylene		250 N/m
Low Density Polyethylene		250 N/m
Painted Panel		1000 N/m
Polypropylene		600 N/m
Aluminium – Untreated		750 N/m
Perspex		950 N/m
Acrylic		950 N/m

**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
Reference Fuel	1 hour at 23°C	Small edge lift, after 24 hours totally recovery
Diesel Fuel	1 hour at 23°C	No Effect
SAE Motor Oil	24 hours at 23°C	No Effect
Detergent Solution	8 hours at 65°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.