K51100 Series Etch Glass Calendered Vinyl

These superior quality calendered vinyl films are intended for interior and exterior use on glass and are available as:

K51111 Silver
K51112 Textured Silver
K51131 Gold

The films have the ultimate properties for outdoor durability and are suitable for use on original equipment identification, signage and vehicles. The 80 micron thickness offers excellent cutting and weeding properties.

The material is very conformable and can be used on smooth and contoured surfaces.

CHARACTERISTIC	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	0.080mm
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	>20.0N/mm²
Elongation	ISO 527:1996	>50%
Adhesion 20 Mins/90°	FINAT FTM2/Glass	520 N/Metre
Adhesion 20 Mins/180°	FINAT FTM1/Glass	650 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Glass	850 N/Metre
Static Shear	FINAT FTM8/Glass	>16 hours
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.5mm
Gloss 60°	ASTM 523-89	<30
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1,000 Hours
Weathering	Vertical Exposure/Mid Europe	5 Years
Application Temperature	Clean, Dry Surface	+8°C to 25°C
Service Temperature		-40°C to + 105°C

Note:

Products that have the metallic finish are considered to be special products in view of their pigmentation. In order to achieve the metallic effect, special pigments must be used. The pigmentation causes the surface sheen to be generally more uneven. The stability of these products on weathering tests also varies, depending on the pigmentation. However, in general results are much less stable than the other no metallic products in same series. Depending on the type of application (i.e. horizontal or vertical base) the life expectation of the film is lower, particularly in the case of higher atmospheric temperatures. The reduction in stability during weathering tests becomes noticeable as it causes increasing discoloration and the loss of mechanical characteristics.

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.