



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

Film Thickness
Adhesive Thickness
Adhesive Type
Release Liner
Storage

Tensile
Elongation
Adhesion 20 Mins/90°
Adhesion 20 Mins/180°
Adhesion 24 Hrs/180°
Static Shear
Dimensional Stability
(150 x 150mm/48 hours/70°C)
Gloss 60°
Flammability
Artificial Weathering
Weathering
Application Temperature
Service Temperature

TEST METHOD

ISO 4591:1992
ISO 4591:1992

ISO 527:1996
ISO 527:1996
FINAT FTM2/Glass
FINAT FTM1/Glass
FINAT FTM1/Glass
FINAT FTM8/Glass
FTM14/Aluminium

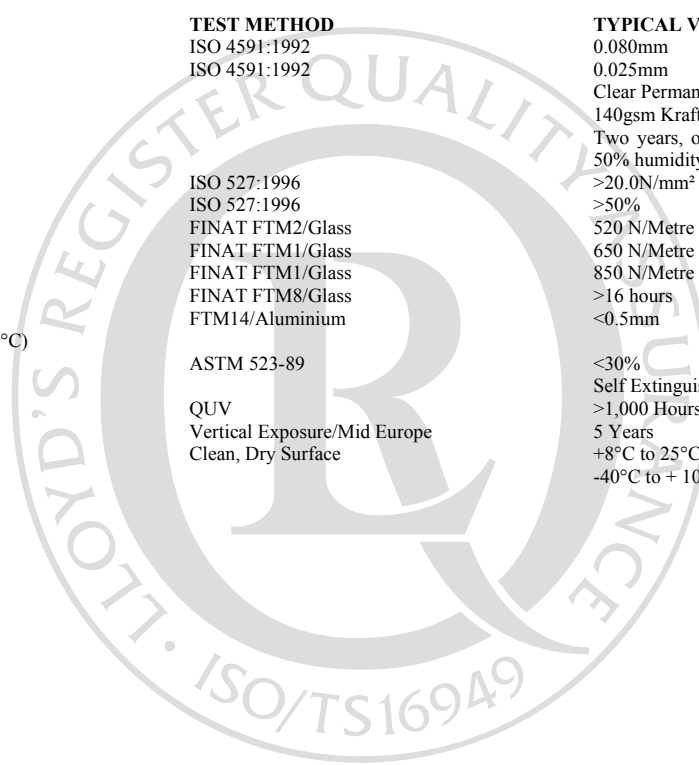
ASTM 523-89

QUV
Vertical Exposure/Mid Europe
Clean, Dry Surface

TYPICAL VALUE

0.080mm
0.025mm
Clear Permanent Cross-Linking Acrylic
140gsm Kraft Printed Blue
Two years, out of direct sunlight at 23°C and 50% humidity
>20.0N/mm²
>50%
520 N/Metre
650 N/Metre
850 N/Metre
>16 hours
<0.5mm

<30%
Self Extinguishing
>1,000 Hours
5 Years
+8°C to 25°C
-40°C to + 105°C



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.

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23/8/2006

TECHNICAL DATA SHEET
K51100 Series Etch Glass Calendered Vinyl
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Approved: 

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D 7.3.6 issue 1 Kay Premium Marking Films Limited, Oakwood Close, Pen-y-fan Industrial Estate, Crumlin, Newport. NP11 3HY



K71111 Series Etch Glass Cast Vinyl

This premium quality cast vinyl film is intended for interior and exterior use on glass. The film has the ultimate properties for outdoor durability and is suitable for use on original equipment identification, signage and vehicles. The material is very conformable, can be used on smooth and contoured surfaces. The film is available as:

K71111 Silver

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 Coated Printed Grey
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>13.5N/mm ²
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	FINAT FTM8/Glass	>16 hours
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.4mm
Gloss 60°	ASTM 523-89	<30%
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1,000 Hours
Weathering	Vertical Exposure/Mid Europe	8 - 10 Years
Application Temperature	Clean, Dry Surface	+8°C to 25°C
Service Temperature		-40°C to +105°C



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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.

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**K71100 Series Crystal Cast Vinyl**

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. They are also widely used for train liveries, boats and as overlaminating films to produce a sparkle effect.

The materials are conformable, being able to be used on smooth and gently contoured surfaces, and are available in a variety of colours.

The films are available as: -

K71112 Silk Crystal
K71113 Sparkle Crystal

K71115 White
K71135 Lemon Yellow

K71155 Pink
K71165 Blue

K71175 Green
K71185 Bronze

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 Coated Printed Grey
Storage		Two years, out of direct sunlight at 23°C and 50% humidity
Tensile	ISO 527:1996	>12.0 N/mm ²
Elongation	ISO 527:1996	>50%
Adhesion 20 Mins/90°	FINAT FTM2/Stainless Steel	250 N/Metre
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	300 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	500 N/Metre
Static Shear (25 x 25mm)	FINAT FTM8/Stainless Steel	>16 hours
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	<0.4mm
Gloss 60°	ASTM 523-89	<20%
Flammability		Self Extinguishing
Artificial Weathering	Atlas Xenon arc	>2000 hours
Weathering	Vertical Exposure/Mid Europe	10-12 Years
Rivet Testing		Not applicable
Application Temperature	KPMF ST 22	+8°C to 25°C
Service Temperature	Clean, dry surface	-40°C to + 105°C
Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel		
Glass		500 N/Metre
Acrylic Sheet		500 N/Metre
ABS Sheet		400 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

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