K74100 Series Cast Luminescent Vinyl

Description

These premium quality cast vinyls are designed for use in all emergency sign and marking applications requiring excellent retained brightness.

The films have the ultimate properties for outdoor durability and are suitable for graphics on emergency equipment and exit signs.

The vinyl is very conformable being able to be used on smooth, textured and contoured surfaces. Uniquely available in white and printable by digital and screen process, the material meets the requirements of DIN 67510PI for luminosity.

Available from stock in 610mm and 1220 mm.

Characteristic	Test Method	Typical Value
Film Thickness	ISO 4591:1992	0.130mm
Adhesive Thickness	ISO 4591:1992	0.030mm
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	>10.0 N/mm²
Elongation	ISO 527:1996	>75%
Adhesion 20 Mins/90°	FINAT FTM2/Stainless Steel	250 N/Metre
Adhesion 20 Mins/180°	FINAT FTM1/Stainless Steel	570 N/Metre
Adhesion 24 Hrs/180°	FINAT FTM1/Stainless Steel	700 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	>85%
Flammability		Self Extinguishing
Artificial Weathering	QUV	>1000 hours
Weathering	Vertical Exposure/Mid Europe	White 8 - 10 years
Rivet Testing	KPMF ST 22	No Cracking
Application Temperature	Clean, dry surface	+8°C to 25°C
Service Temperature		-40°C to +105°C
Luminosity (1)	DIN 67510PI	Approved – Certificate No: S1E1257
Luminosity (2)	ASTM E 2072-00	Conforms to specification
Luminosity (3)	BS 5499: Part 2:1986	Conforms to specification
Luminosity (4)	Visual Life 1 Hour	
Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel		
Aluminium - Untreated		860 N/Metre
Aluminium - Anodised		940 N/Metre
Stainless Steel		700 N/Metre
Chromed Steel		690 N/Metre
Polyurethane		400 N/Metre
Glass		700 N/Metre
Acrylic Sheet		700 N/Metre
ABS Sheet		580 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

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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