

K74000 Series Cast Vinyl TECHNICAL & PERFORMANCE INFORMATION

K74000

K74000 Series Fluorescent Cast Vinyl

These premium quality cast vinyl films are intended for use in all exterior marking and signage applications where fluorescent properties are required. The films have the ultimate properties for outdoor durability and are particularly suitable for graphics on trucks, recreational vehicles and automobiles. The films have been particularly developed for use on Police and Emergency vehicles.

The materials are very conformable, being able to be used on smooth, textured and contoured surfaces, and are available as: -

K74031 Yellow K74051 Red K74061 Blue K74041 Orange K74052 Fuscha K74071 Green

CHARACTERISTIC TEST METHOD TYPICAL VALUE

Film Thickness ISO 4591:1992 0.100mm Adhesive Thickness ISO 4591:1992

Adhesive Type Grey Permanent Cross-Linking Acrylic Release Liner 150gsm PE Coated Printed Grey

Storage Two years, out of direct sunlight at 23°C

and 50% humidity >15.0 N/mm² Tensile ISO 527:1996

Elongation ISO 527:1996 >100% FINAT FTM2/Stainless Steel Adhesion 20 Mins/90° 250 N/Metre Adhesion 20 Mins/180° FINAT FTM1/Stainless Steel 520 N/Metre Adhesion 24 Hrs/180° FINAT FTM1/Stainless Steel 760 N/Metre Static Shear (25 x 25mm) FINAT FTM8/Stainless Steel >15 hours

Dimensional Stability FTM14/Aluminium <0.4mm (150 x 150mm/48 hours/70°C) (150 x 150mm/48 hours/70°C)

Gloss 60° ASTM 523-89 >85

Flammability Self Extinguishing Artificial Weathering >250 hours

Weathering Vertical Exposure/Mid Europe

Orange/Fuscha/Blue/Green KPMF real time analysis. 18 months Yellow/Red KPMF real time analysis. 24 months Rivet Testing KPMF ST 22 No Cracking +8°C to 25°C

Application Temperature Clean, dry surface -40°C to + 105°C Service Temperature

Adhesion Properties to Various Substrates for 24 hours at 23°C/180° Peel

Aluminium - Untreated 920 N/Metre Aluminium - Anodised 1,000 N/Metre Stainless Steel 760 N/Metre Chromed Steel 750 N/Metre 460 N/Metre Polyurethane 760 N/Metre Glass 760 N/Metre Acrylic Sheet

ABS Sheet 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 1 year Mid Tide (BS 5609:1986) Sea Water No Effect

1 hour at 23°C Reference Fuel 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 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. As permanent pigmented adhesive is used it may not be possible to achieve total clean removal.

640 N/Metre

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.

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.

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.

| Issue 10 | TECHNICAL DATA SHEET | Approved: MB | Page |
|------------|--------------------------------------|---------------|--------|
| 12/05/2014 | K74000 Series Fluorescent Cast Vinyl | Approved. One | 1 of 1 |
| | © Kay Premium Marking Films Ltd | | |