



K57200 Bright Chrome Vinyl (Aluminium)

This high gloss silver metalised PVC vinyl has been specially developed for promotional and aftermarket 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 film suitable for slightly 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 | 0.030mm |
| Adhesive Type | | Clear Permanent Cross-Linking Acrylic |
| Release Liner | | 0.075 mm antistatic matt backed polyester |
| Storage | | Plain White SSPE |
| | | Two years, out of direct sunlight at 23°C and 50% humidity |
| Tensile | ISO 527:1996 | 50 N/mm ² |
| 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 |
| Weathering | Vertical Exposure/Mid Europe | Up to 5 years when applied to vertical surfaces and edge sealed |
| Heat Resistance at 100°C for 1 hour | | Minor loss of lustre |
| Application Temperature | Clean, dry surface | 21 – 32 °C |
| Adhesion Properties to Various Substrates for 24 hours at 23°C/180° peel. | | |
| 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.