



## Data sheet K88150 Clear Stone-guard Vinyl

### Product Description

This 150 micron Polymeric clear gloss PVC film has been designed for the protection of vehicle paintwork against stone chip damage, particularly on vulnerable areas such as front and rear bumpers, side skirts etc. Excellent conformability makes this product suitable for bonding to even and slightly curved surfaces.

Typical applications include total vehicle cover, vehicle graphics, signs and decal applications which require exterior exposure of 5 to 7 years. The material is designed to be removable, under controlled conditions, up to a period of three years.

As this quality of film is very soft, to facilitate application, it can be expected that the slight texture on the reverse of the Liner may be partially transferred into the film face surface, which may reduce the apparent gloss level. Following application, the action of sunlight and temperatures above 18°C will help to restore the gloss level.

### Products available

K88150

### Physical Characteristics

	TEST METHOD	TYPICAL VALUE
Film Thickness	ISO 4591:1992	150µm
Elongation	ISO 527:1996	> 150%
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	< 0.5mm
Gloss 60°	ASTM 523-89	> 85%

### Adhesive

Clear Permanent Cross-Linking Acrylic solvent based for both wet and dry application.

### Adhesive properties

Adhesive Thickness	25g/m <sup>2</sup>
Adhesion to stainless steel 20 Mins/180°	> 600 N/m
Adhesion to stainless steel 24 Hrs/180°	> 750 N/m

### Release Liner

120gsm Single Sided PE Printed Black VWS

### Widths

Available in 1525mm.



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## Durability

Flammability  
Artificial Weathering

Self-Extinguishing  
Atlas Xenon Arc

Self- Extinguishing  
➤ 1000 hours

Weathering  
Clears

Vertical Exposure/Mid Europe

7 Years

Durability is based on middle European exposure conditions.

Service Temperature

-20°C to +90°C

**Resistance to various liquids after application of a 25mm strip of vinyl to stainless steel and conditioned for 24 hours at 23°C prior to immersion. Results examined 1 hour after test.**

Humidity  
Water (Distilled)  
Diesel Fuel  
SAE Motor Oil  
Antifreeze/Water (1:1)  
Hydraulic Oil

24 hours at 38°C and 100%  
24 hours at 32°C  
1 hour at 23°C  
24 hours at 23°C  
24 hours at 23°C  
24 hours at 23°C

## Product Usage guide

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).

Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids etc. may eventually cause deterioration. Actual performance will depend on substrate preparation, exposure conditions and application of marking.

Although we have good control of the colour production of KPMF products at our multiple locations, as with all other manufacturer's products, customers should be aware that there may be subtle variances between samples, swatches and production materials, so therefore it is advisable to avoid using different batches of material for the same end application to avoid possible colour shifts between the batches.

Application temperature onto clean, dry surface Min +10°C  
Specific techniques must be used when applying "VWS K88000 Series" to vehicles, specialised training is available. It is the responsibility of the applicator to ensure that the paint system is suitable for the application of "VWS K88000 Series" vinyl and that it is in a fit condition for the application and removal of self-adhesive vinyl. A separate application guide is available upon request. Kay Premium Marking Films do not accept any liability for paint failures incurred during the application or removal of "VWS K88000 Series" vinyl.

## Storage

Shelf life (before application) Two years, out of direct sunlight between 15°C and 23°C and 30 to 70 % relative humidity



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### Product Warranty

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. This product has been warranted to provide clean removability, under controlled conditions, up to a period of three years from a range of substrates. Clean removability is deemed with less than 30% adhesive residue when using heat and chemical removal methods. Exceptions to the removal warranty are those applied to the following: pre-existing graphics, paint which is not properly bonded to the substrate and custom paint applications. There is no guarantee made for; ease or speed of graphic removal, removal from improperly cured paint, removal from oxidized or chalked substrates, or from horizontally exposed outdoor applications. Due to the large variety of available paint finishes, it is advisable to fully evaluate small areas particularly after printing prior to complete applications.

The data included on the Data sheet shows typical properties and should not be taken as a guarantee for performance.

CERTIFIED  
ISO 9001 · IATF 16949