



K88150

Clear Stoneguard Vinyl

Technical Data Sheet

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.

On kraft liner - As this quality of film is very soft, to facilitate application, it is expected that the apparent gloss level will be reduced due to the slight texture on the reverse of the liner that may be partially transferred into the film surface. Following application, the action of sunlight and temperatures above 18°C will help to restore the gloss level of material on kraft liner

On PET liner – Material produced on a PET liner results in a high gloss finish, reduced orange-peel effect and increased optical clarity. Following application, the action of sunlight and temperatures above 18°C will enhance the gloss level of material produced on PET liner.

Features

- Excellent conformability
- Excellent outdoor durability
- Removable up to a period of 3 years

Recommended Uses

- Protection of vehicle paintwork against stone chip damage; total vehicle cover

Face Film

150µm Clear Polymeric Calendered

Adhesive

25g/m² clear permanent solvent-based acrylic

Release Liner

Kraft or PET

Widths

1525mm

Durability

Up to 7 years (vertical exposure, mid Europe)

Shelf Life

2 years

Products Available

- Please refer to our website or swatches to see the full range.

Physical Characteristics		
Properties	Test Method	Typical Value
Film Thickness	ISO 4591:1992	150µm
Elongation	ISO 527-3:2018	>150%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5mm
Gloss 60°	ASTM D523-14 (2018)	>85
20 minute 180° Peel	FTM1/Painted Steel	>600N/m
24 hour 180° Peel	FTM1/Painted Steel	>750N/m
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	>1000 hours
Outdoor Weathering		
Vertical Exposure – Mid Europe	-	7 years
Temperature Range		
Application Temperature	-	Minimum +18°C
Service Temperature	-	-40°C to +90°C
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
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

Product Usage Guide

- Specific techniques must be used when applying K88150 – specialised training is available. It is the responsibility of the applicator to ensure that the paint system is suitable for the application of K88150 and that it is in fit condition for the application and removal of self-adhesive vinyl. A separate VWS 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 K88150.
- 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.
- For best results, application should be performed in a clean, dry workshop at an ambient temperature of 18-24°C.
- Shelf life is 2 years when stored out of direct sunlight, at a temperature of 15-23°C and a relative humidity of 30-70%.

Product Warranty

Kay Premium Marking Films products 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 products 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's 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 3 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 substrate finishes, it is advisable to fully evaluate small areas particularly after printing prior to complete applications.

The data included on this datasheet shows typical properties and should not be taken as a guarantee for performance.

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