

K81200 Series Functional Films

Product Description

Superior quality, calendared polymeric vinyl films.

K81200 Black Functional

Specially developed for use in the automotive and other industries for blackout, kick tread and stone-guard applications. Offers protection to areas that are vulnerable to stone chipping or scratching. Particularly suitable for A/B/C Pillars, Window Profiles, Wheel Arches and General Decoration. End users of K81200 Black include a number of OEMs.

Recommended Uses

K81200 Black Functional

- Blackout
- Kick tread
- Stone-guard applications
- A/B/C pillars
- Window profiles
- Wheel arches

Products Available

- K81219 Black Functional
- K81232 Black Functional

Face Film

190µm – 320µm Polymeric Calendared

Adhesive

40g/m² clear permanent solvent-based acrylic

Release Liner

Kraft

Widths

1220mm

Durability

See weathering information in Physical Characteristics below

Shelf Life

2 years

(out of direct sunlight, between 15°C and 23°C, 30% to 70% relative humidity)

Physical Characteristics

	Test Method	K81219	K81232
Film Thickness	ISO 4591:1992	190µm	320µm
Elongation	ISO 527-3:2018	75%	75%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<0.5mm	<0.1mm
20 minute 180° Peel	FTM1/Painted Steel	600N/m	600N/m
24 hour 180° Peel	FTM1/Painted Steel	700N/m	700N/m
Static Shear	FTM8/Painted Steel	>16 hours	>16 hours
Flammability		Self-extinguishing	Self-extinguishing
Artificial Weathering	Atlas Xenon Arc - SAE J2527	>2000 hours	>2000 hours
Outdoor Weathering	Florida/Arizona	>2 years	>2 years
Application Temperature		Minimum +18°C	Minimum +18°C
Service Temperature		-40°C to +90°C	-40°C to +90°C
		K81219	K81232
Aluminium – Untreated		1215 N/m	1215 N/m

Aluminium – Anodised	1190 N/m	1190 N/m
Stainless Steel	830 N/m	830 N/m
Chromed Steel	900 N/m	900 N/m
Polyurethane	560 N/m	560 N/m
Glass	830 N/m	830 N/m
Acrylic Sheet	830 N/m	830 N/m
ABS Sheet	760 N/m	760 N/m

Abrasion Resistance

300 Cycles (SAE J400 1 pint of gravel) No loss of pattern No loss of pattern

		K81219	K81232
Humidity	24 hours at 38°C and 100%	No effect	No effect
Water (Distilled)	24 hours at 32°C	No effect	No effect
Diesel Fuel	1 hour at 23°C	No effect	No effect
SAE Motor Oil	24 hours at 23°C	No effect	No effect
Antifreeze/Water (1:1)	24 hours at 23°C	No effect	No effect

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.

For best results application should be performed in a clean dry workshop at an ambient temperature of 18°C - 24°C

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.

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