



Product Description

These premium quality extruded aliphatic polyurethane films have been specially developed for use in the automotive and other industries which require a self-adhesive material to reduce corrosion, stone chipping and scratching. This polyurethane may also be used for anti-squeak applications. The film is transparent and has a specially developed High Tack adhesive system which makes it suitable for use over painted surfaces. It is very conformable and able to applied to smooth, textured and contoured surfaces.

Features

- Clear conformable film
- Solvent-based permanent adhesive
- Excellent outdoor durability

Recommended Uses

- Protection against corrosion, stone chipping and scratching; anti-squeak applications

Face Film

137µm Clear Aliphatic Polyurethane

Adhesive

38g/m² clear permanent solvent-based acrylic

Release Liner

75µm PET

Widths

1524mm

Durability

Up to 8 years (vertical exposure, Mid-Europe)

Shelf Life

2 years (if protective film is attached)

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	137µm
Elongation	ISO 527-3:2018	>300%
Dimensional Stability (48 hours/70°C)	FTM14/Aluminium	<1.0mm
20 minute 180° Peel	FTM1/Stainless Steel	400N/m
24 hour 180° Peel	FTM1/Stainless Steel	600N/m
72 hour 180° Peel	FTM1/Stainless Steel	900N/m
Ease of Release	T-Peel	13N/m
Flammability	-	Self-extinguishing
Artificial Weathering	Xenon Arc	2000 hours
Outdoor Weathering		
Vertical Exposure – Mid Europe	-	6-8 years
Florida/Arizona	-	2 years
Temperature Range		
Application Temperature	-	Minimum +10°C
Service Temperature	-	-40°C to +90°C
Resistance to various liquids and conditions		
Fuel	-	No blistering, visible shrinkage or edge lifting
Gravel 48 hours at 23°C	SAE J400 1 pint of gravel	Does not exceed approved sample
Gravel 48 hours at 23°C & 4 hours at -30°C	SAE J400 1 pint of gravel	Does not exceed approved sample
Environmental Resistance	30 minutes at 110°C	No degradation
	240 hours at 90°C	No degradation
	240 hours humidity	No degradation

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.
- For best results, application should be performed in a clean, dry workshop at an ambient temperature >10°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% (with protective film attached). Where the product is supplied without protective film attached, the shelf life under these same conditions is reduced to 10 months for roll lengths <50lm.

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's liability to the purchaser shall in no circumstances exceed the cost of the amount of the defective material supplied. 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 this datasheet shows typical properties and should not be taken as a guarantee for performance.

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