



K83000 Series Clear Polyurethane - Aromatic

These high quality extruded aromatic 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. The films are clear and have a specially developed adhesive system which makes them suitable for use over flat surfaces. They are recommended for use under the final paint system and for anti-squeak applications.

The materials have performed successfully when printed by rotogravure screen and digital methods using solvent based inks, as well as thermal transfer imaging. However, it is advisable to test the process prior to any production run.

These films are available as:

K83999	1,000 Micron with 50gsm of adhesive	K83350	350 Micron with 50gsm of adhesive	K83075	75 micron with 35gsm of adhesive
K83850	850 Micron with 50gsm of adhesive	K83300	300 micron with 40gsm of adhesive	K83050	50 micron with 35gsm of adhesive
K83800	800 Micron with 50gsm of adhesive	K83250	250 micron with 40gsm of adhesive	K83038	38 Micron with 30gsm of adhesive
K83750	750 Micron with 50gsm of adhesive	K83200	200 micron with 40gsm of adhesive	K83035	35 Micron with 30gsm of adhesive
K83550	550 Micron with 50gsm of adhesive	K83150	150 micron with 40gsm of adhesive	K83026	26 Micron with 30gsm of adhesive
K83500	500 Micron with 50gsm of adhesive	K83125	125 Micron with 35gsm of adhesive		
K83400	400 micron with 50gsm of adhesive	K83100	100 micron with 35gsm of adhesive		

All materials are available with a paper or antistatic polyester liner and are often subject to minimum order quantities.

CHARACTERISTIC

TEST METHOD

TYPICAL VALUE

Film Thickness	ISO 4591:1992	See above
Adhesive Thickness	ISO 4591:1992	See above
Adhesive Type		Self Cross Linking Acrylic
Release Liner		140gsm Stayflat Kraft/ 75µ antistatic matt backed polyester
Tensile (K83200)	ISO 527:1996	>30 N/mm ²
Elongation (K83200)	ISO 527:1996	>250%
Static Shear	FINAT FTM8/Stainless Steel	>2 hours
Adhesion 20 Mins/180° 23°C	FINAT FTM1/Stainless Steel	370 N/m Minimum
Adhesion 24 Hrs/180° 23°C	FINAT FTM1/Stainless Steel	580 N/mm Minimum
Dimensional Stability (150 x 150mm/48 hours) 70°C	FINAT FTM14/Aluminium	<1.0mm
Gravel Resistance (K83200)	SAE J400 2.4L of gravel	
	1. 48 Hrs at 23°C	Shall not exceed approved test sample.
	2. 48 Hrs at 23°C & 4 Hrs at -30°C	Shall not exceed approved test sample.
	3. 4 Hrs at -30°C two cycles GM 950SP-F	Shall not exceed approved test sample.
	1000 Cycles, 500g load, CS-17 Wheel	No wear through to substrate.
Abrasion Resistance		No blistering , visible shrinkage or edge lifting.
Fuel Resistance		No blistering , visible shrinkage or edge lifting.
Environmental Resistance		

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.