

“KIWACAL” METALLIC FILM

POLYURETHANE TYPE



“KIWACAL” Metallic Film, Polyurethane type, is a metallized cast polyurethane based film, which is environmentally friendly, as the film is halogen free and does not contain chlorine at all and no dioxin will generate when disposed.

Unlike paint coating process which may create an environmental burden, the film may freely be processed by cutting, screen printing, lithographic printing, etc.

Though the film has less outdoor weathering property than our Metallic Film, MT series, the film is far more durable than the similar products available in the marketplace, and can be supplied at more economical price.

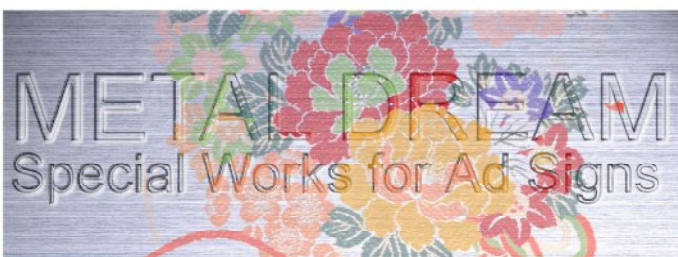
Furthermore, the film has superior heat resistance, dimension stability and chemical resistance, and wide range of outdoor applications is guaranteed.

Proposed applications:

- Stripe and spot decoration of automobile, motor cycle, motor boat, snow mobile, etc.
- Decoration of store windows, store interiors, etc.
- Decoration of electric appliances
- Outdoor sign boards, guide sign boards, etc.

Characteristic features:

- 1) Environmentally friendly
No halogen material is contained
- 2) Easy handling
Easily cut and applied. Luxury metallic appearance can easily be obtained. Special skillfulness in applying is not required, as needed for painting. Will not also be bothered by smelling solvents in painting
As the adhesive has special treatments, trapped air can be avoided during application work. This will also prevent blistering caused by gas generated from some plastic substrates.
- 3) Excellent durability
Excellent heat resistance, weather resistance, dimensional stability, moisture proof, resistance to petrol, chemical resistance, etc. and suitable for outdoor applications.
- 4) Printability
Accept screen printing and lithographic printing.



POLYURETHANE BASED METALLIC FILM

				KIWA	KIWA
				SILVER	GOLD
ACCELERATED WEATHERING	SUNSHINE W-O-M	1000hrs		NO EFFECT	NO EFFECT
		2000hrs		NO EFFECT	NO EFFECT
	OUTDOOR EXPOSURE	6 MONTHS		NO EFFECT	NO EFFECT
		1 YEAR		NO EFFECT	NO EFFECT
COMBINED CYCLIC CORROSION TEST	94 CYCLE			NO EFFECT	NO EFFECT
	125 CYCLE			NO EFFECT	NO EFFECT
SHRINKAGE BY HEATING	80°Cx 48hrs	UNMOUNTED %	MD	0.7	0.7
			TD	0.7	0.7
		AMOUNTED %	MD	0	0
			TD	0	0
PHYSICAL PROPERTY	ELONGATION %		MD	95	95
			TD	95	95
	TENSILE STRENGTH N/cm		MD	12.7	12.7
			TD	12.7	12.7
CHEMICAL RESISTANCE	10%HCl	5mins	NO EFFECT	NO EFFECT	
	10%NH ₄ OH	5mins	NO EFFECT	NO EFFECT	
	Reference Fuel	1hrs	NO EFFECT	NO EFFECT	
	Xylol	1min	NO EFFECT	NO EFFECT	
	Toluol	1min	NO EFFECT	NO EFFECT	
	Petrol	30mins	NO EFFECT	NO EFFECT	
	Methyl Alcohol	10mins	Whitened slightly	Whitened slightly	
	Mineral Spirit	10mins	NO EFFECT	NO EFFECT	