

"KIWACAL" ANTI-GRAFFITI FILM



"Graffiti" with spray paints are becoming a serious problem worldwide as the beauty and cleanness of streets are very much spoiled and eventually the public and personal assets are deeply damaged.

"KIWACAL" Anti-Graffiti Film will protect the assets from spray paints as these sprayed graffiti may easily be wiped away as the film repels water and oil. (*1)

As the film is clear transparent and very durable, the film may maintain the vivid image of original printed designs for a quite long period. (*2)

As the film may also prevent the ultra violet rays from penetrating through the film, it protects the bills and advertising signboards from fading.

Any contamination due to the exhaust gases out of automobiles staying on the film surface can be easily removed. Therefore, the film is suitable for many applications including traffic signs, guardrails, power supply facilities, etc.

Notes:

(*1) Such solvents as alcohol and paint thinners can be used, if necessary.

(*2) The result of the accelerated weathering tests (sunshine w-o-m: 3,000hrs. & QUV w-o-m: 2,000hrs.) was satisfactory.



KIWA CHEMICAL IND. CO., LTD.

ANTI-GRAFFITI FILM

TEST ITEMS		TEST CONDITIONS	RESULT	NOTES
THICKNESS(μ)		FILM	50	MICROMETER
		ADHESIVE	30	
TENSILE STRENGTH(k g / c m)		M D , T D	3.7	condition : 20 x 65% pulling speed:100mm/min
ELONGATION (%)		M D , T D	400	
ADHESION(k g / c m)		ALUMINIUM PLATE	0.5	peeling at 180 ° conditioned: 20 x48hrs
		POLYCARBONATE PLATE	0.5	
		ACRYLIC PLATE	0.4	
		KIWALITE #12000	0.5	
		KIWALITE #2000	0.5	
DIMENSIONAL STABILITY (%)	MOUNTED ON ALUMINIUM PLATE	MD	0	specimen: 100x100mm heating: 80 x48hrs
		T D	0	
HEAT RESISTANCE		70 x168HRS	NO EFFECT	mounted on polycarbonate plate
			NO EFFECT	mounted on acrylic plate
CHEMICAL RESISTANCE				mounted on aluminium plates
Water		98 x5mins	NO EFFECT	85% Mineral spirits/15% Xylol
10%HCL		5mins	NO EFFECT	
10% N H ₄ O H		20mins	NO EFFECT	
Reference Fuel		1hr	NO EFFECT	
Xylol		1min	NO EFFECT	
Toluol		1min	NO EFFECT	
Petrol		30mins	NO EFFECT	
Methanol		10mins	NO EFFECT	
Mineral Spirits		10mins	NO EFFECT	
ACCELERATED WEATHERING TEST				
SUNSHINE W-O-M		3000hrs	NO EFFECT	black panel : 63 ± 3 water spray: 18/120mins
		2000hrs	NO EFFECT	UV radiation: 60 x4hrs condensation: 50 x4hrs
STAIN RESISTANCE		felt pen - black	NO EFFECT	wipe with methanol after 24hrs
		felt pen - red	NO EFFECT	

* ROLL SIZE: 1220mm. x 50M