

Da Vinci

GROUP



Anti-V Film

High Functionality Antibacterial Film

Anti-V Film Characteristics

Antimicrobial film of zinc oxide made by high-function imprinting technology.

	Anti-V Film	Other Companies
Antibacterial force	50%	50%
Durability	85%	15%
Touch recognition	80%	20%
Material	80% (PET)	20% (PE, PS)
Design application	95% (CAN BE CUSTOM MADE)	5% (IMPOSSIBLE)
Contamination resistance	80%	20%

OPDI high-precision imprinting production facility owned.

Various design applications and advanced PET and TPU materials.

Anti-V Film Characteristics

Antimicrobial film of zinc oxide made by high-function imprinting technology.

Made in Korea

1. Product Specification

- Product Name: Anti-V
- Standard: 500mm*2000mm
- Manufacturer: ADP Co.,LTD.
- Antimicrobial film division:

201,Pilot Production, 88, Somang-gil, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, Republic of Korea

- Antibacterial material: ZnO

2. Description

- Passed FITI antimicrobial testing (antibacterial power 99.9%)
- Touch recognition 99.9%
- More transparency and durability through the use of PET and TPU films- Apply optical pattern design

3. Why zinc oxide (ZnO) material?

- Disadvantages of Copper (Cu)
- When copper is oxidized, it loses its antibacterial power, and the life of the material is shortened.
- Be less visible and rough on the surface
- Advantages of zinc oxide(ZnO)

- Not only live bacteria such as Staphylococcus aureus, Escherichia coli, pneumonia and pyurus, but also strong antibacterial properties such as superbacteria and Candida bacteria.
- Remove unpleasant odors with anti-catalysts
- Safe Material Recognized by U.S. FDA, EPA

The excellent photocatalyst activation action of nano-sized ZnO decomposes the odour. In addition to fibre, it removes daily odours such as ammonia and hydrogen sulfide from various functional materials. Hydrogen sulfide is reduced by 79.

6% and ammonia by 99.6%.

EPA has approved zinc oxide as a safe antibacterial agent.

The U.S. Food and Drug Administration has recognized zinc oxide as a safe food additive.

4. Characteristics

- The surface coating is uniform and the surface is smooth, making it easy to remove foreign substances. And no antibacterial sticker required with optical pattern design.
- Less scratches on external shocks(3H)
- Can be applied to custom-made designs(Companies can apply design patterns such as CI,BI, etc.- Inquiry required)

5. How to use

- Cut to fit the size of the place to use.
- Remove dust, moisture, foreign substances, etc. from the attachment.
- Remove the protective film of the product little by little and attach it to the desired area.
- Using a soft cloth, press from centre to outside and remove air bubbles.

6. Precautions for Use

- Change the timing of replacement to the degree of damage on the film.
- Carefully use sharp tools to cut not tearing material.
- If the surface of the product is dirty, wipe it with tissue or wet tissue.
- Fix the non-adhesive type with tape.
- Adhesion may reduce adhesion in low temperatures or high humidity areas.
- Keep away from fire.

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TYPE	FILM TYPE	ADDITIONAL APPLICABLE
Film A (adhesive)	Material: PET / width: 1,560mm (film 50Đ/antimicrobial 8~12Đ/adhesive 5~7Đ/ protective film 22Đ)	Slitting and batting packing box, surface protection film Pattern design change, etc.
Film B (non-adhesive)	Material: PET / width: 1,560mm (film 50Đ/antimicrobial 8~12Đ)	Slitting and batting packing box, surface protection film Pattern design change, etc.
Film C (silicone adhesion)	Material: PET / width: 1,070mm (film 50Đ/antimicrobial 8~12Đ/Si adhesive 30Đ/ protective film 50Đ)	Slitting and batting packing box, surface protection film Pattern design change, etc.

Anti-V specification.

Korean PET material, using high quality optical film.

Anti-V Film Characteristics

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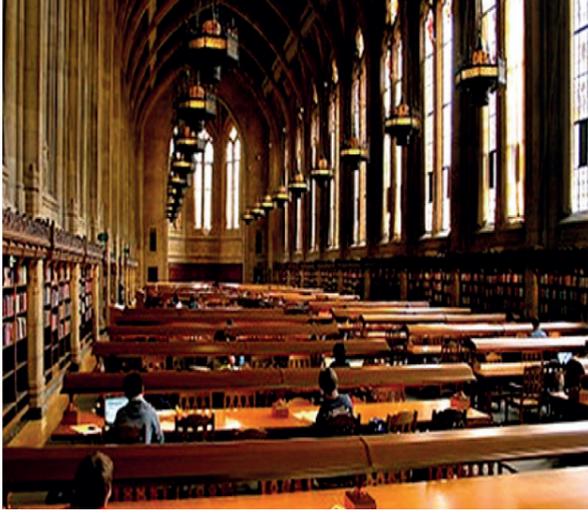
Completed the performance evaluation of the authorized testing agency.

Test results show that antibacterial effects are higher than 2.0 antibacterial activation and higher than 4.0 in all.

In particular, the antibacterial performance of pneumonia (3 strains) is very high at 5.8.

BACTERIA 1	The Number of Bacteria after inoculation	1.7 x 10 ⁴	-
	The Number of Bacteria after 24 Hours	2.9 x 10 ⁴	-0.63
	Antibacterial Activity (log)	-	4.6
BACTERIA 2	The Number of Bacteria after inoculation	1.5 x 10 ⁴	-
	The Number of Bacteria after 24 Hours	9.2 x 10 ⁴	6.3 x 10
	Antibacterial Activity (log)	-	4.1
BACTERIA 3	The Number of Bacteria after inoculation	1.7 x 10 ⁴	-
	The Number of Bacteria after 24 Hours	4.2 x 10 ⁴	-0.63
	Antibacterial Activity (log)	-	5.8

Antimicrobial Activity and Efficacy (JIS Z 2801 : 2010 (FILM CONTACT METHOD) : CFU/C² VALUE OF Antimicrobial Activity.



LIBRARY DESK

Concern about public contact

An antimicrobial film is stuck to the common desk to minimize the infection of the customer.



RESTAURANT TABLE

Prevention of infection during meals

Apply antimicrobial film to the meal table to prevent infection.



SCHOOL DESK

Measures to protect children's daily lives

Antimicrobial film to prevent infection among students.



BANK CASHIER WINDOW

Concern of contact with multiple people

Minimize the infection of users by applying antibacterial film to the counselling table.



SHOWCASE

Prevention of food contamination

Prevent infection due to food contamination.



COMMERCIAL GYM SHOWER

The most hygienic place

Prevention of infection by attaching to partition plate.

Anti-V Film (Adhesive)

Protective membrane for infection prevention by contact.

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HANDLE TO PUBLIC TRANSPORTATION

Concern of contact with multiple people

It prevents infection by public transportation used by many people.

Anti-V Film (Adhesive)

Protective membrane for infection prevention by contact.

These numbers are taken from actual deals but cannot be guaranteed.

STAIR RAILING

Concern of contact with multiple people

Prevents infection by contact.

GRAB & GO

Prevention of food contamination

Prevention of food contamination by applying it to blindfolds on display shelves.

TOUCH SCREEN

Contact-induced infection prevention

It prevents infection by contact and has a high touch recognition rate.

Anti-V Film (Silicone Adhesive)

Protective membrane for infection prevention by contact.

ELEVATOR BUTTONS

Buttons, switches, etc.

Attaching with tape, etc. areas with severe surface irregularities. Silicone and Non adhesive work fine.

AIRPORT - SCREENS

Prevention of infection at airports

At airports where infection risk is high, antibacterial films can be stuck to prevent infection by contact.



KIOSK

High touch recognition of PET film

It is applied as a transparent film to various kiosks and has marketing effects by applying logos from related companies.



CELLULAR PHONE

Liquid crystal protective film

You can prevent infection by contact by pasting antibacterial film on your cell phone.



ELECTRONIC DEVICES

Prevention of infection by contact

It can be used for electronic contact areas to prevent infection.



SELF-CHECK-IN

Airport self-check-in use

At airports where infection risk is high, antibacterial films can be stuck to prevent infection by contact.



Anti-V Film (Silicone Adhesive)

Protective membrane for infection prevention by contact

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ELEVATOR BUTTON

Buttons, switches, etc.

Attaching with tape, etc. on areas with severe surface irregularities. Silicone and Non adhesive work fine.

OUTDOOR WOODEN BENCH

Old furniture, wooden structures, etc

When used outdoors or when the surface of furniture is rough or dusty.

MATERIALS SUCH AS STONE AND METAL

Where it is difficult to attach due to the material

Attach it in a way that suits the situation or just use it as a cover.

Anti-V Film (Non-Adhesive)

Protective membrane for infection prevention by contact

Anti-V-Film



HIGH FUNCTION PET, TPU

Applicable to IT devices and furniture

Premium film made of the most advanced materials (PET,PU) of film materials.

HIGH DURABILITY

Endurance not comparable to PE, PS

No secondary contamination, such as stripping of antimicrobial agents, as they are not wrinkled or damaged even after prolonged use.

FREE APPLICATION OF DESIGN

Offers infinite design with OPDI technology

Design with optical pattern enables free design film production.

DIRECT DEVELOPMENT & PRODUCTION

From antibacterial resins to filmmaking

Better quality control by direct production.

The application of optical pattern minimizes surface contact and uses high-hardened resins to prevent contamination.

Q&A

What is the shelf life of the film?

There are differences depending on the usage. Parts that have irregularities such as elevator buttons and that people touch a lot will have a short replacement time.

Even if it is where people are touching the part, if it is attached to the monitor screen like a touch pad (kiosk), the surface is flat, so it will not be replaced due to Contamination Caused by use, but should be replaced by damage. Even places where there are many strong impacts, such as a desk, should be replaced if physical damage occurs.

Overall, the replacement life of the product will be more than 3 years if it is still attached such as an interior film.

The monitor application will be more than 2 years. Elevator buttons, etc. will be approx a years usage.

The most important feature of Anti-V products is that the base is a PET film, and it is a product with 3H-class imprinting on the surface.

The base material (PS, PE, PVC, etc.) is different from existing product on the market. There is a difference of 3 to 4 times as a general domestic lifespan. (The reason why high-quality automotive tinting films are made of PET) Its thickness, transparency, and durability are outstanding. Since the antibacterial

agent is imprinted on the surface, the antibacterial effect is excellent compared to the product with the antibacterial material added to the film itself.

How much can be produced per week?

It is based on 2,000M/roll. 16,000M can be produced in one week after order.

How long will it take to get shipped after placing order?

Up to 15 days before shipping.

How is the payment method?

50% Deposit by bank transfer at the time of purchase, the remaining 50% by bank transfer before product will be shipped.

How many rolls make up the 2000 metre?

MINIMUM ORDER is 2,000m, each roll is 50m. Totaling = 40 rolls.

Is there any additional fee for special size cuts?

Yes additional time and cost will be required upon specifications of cuts needed. Each roll is (1,560mm in width) X (50 m in Length).

What about freight price?

Depends on delivered location. Shipment type by air or by cargo ship will also determine fees.

Is the Material fire proof?

PET (Polyester Film) and PET is a Non-inflammatory Material. Keep Product away from flames / Safe Material Recognized by U.S. FDA, EPA

Is there any cleaning supplies that should be avoided?

YES do not use harsh chemicals to clean film. Best to clean with Dish Soap and water.



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