

Security Tape

Selection Guide



Seal King Ind. Co., Ltd.

14F-2, No.888, Jing Guo Rd.,
Tao Yuan 330, Taiwan, R.O.C.

Tel:886-3-326 5522

Fax:886-3-317 7282

<http://www.sealking.com.tw>

E-mail: sales@sealking.com.tw

Seal King / 2011

PROLOGUE

In the world of international business unscrupulous criminal elements are constantly trying to substitute genuine products or tamper with goods to deceive customers for their own personal gain. The Seal King Company constantly utilizes its full R&D capacity, technical innovation and production techniques to provide you with Security Tapes offering the most comprehensive, consistent and cutting edge solutions available in the fight against these types of fraudulent activities.

Seal King currently produces three main types of security tape products; i.e. Total Transfer, Partial Transfer and Zero Transfer. Each product type is formulated for application specific surfaces, offering reliable visibility of the voiding message. Excellent hot or cold interference resistance and versatility for conversion into die cut parts and sequential printing etc. Seal King Security tapes' outstanding technological features incorporate the best anti-forgery, peel resistant self voiding systems for use under extreme conditions making them ideal for widespread use in secure logistics, forensic and intelligence investigation, military security, cash transit, aviation security, secure medical packaging, electronic warranty seals etc

"To stand still is to fall behind" ; this expression cannot be applied to Seal King as for over 25 years we have kept moving forward, our wish for the next 25 years is we move forward together.

Seal King - the ultimate partner in adhesive solutions.

James M.Y. Wang

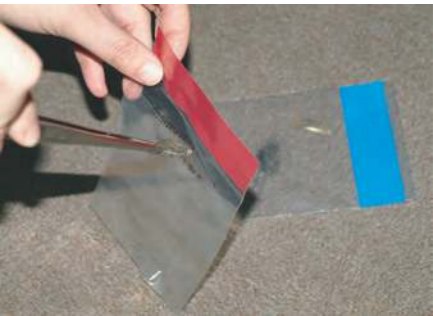




SK-20XX-3

SK-20-3 Partial transfer security tape is with film liner; glue and printing partially transferred over to the substrate after peeling.

SK-20 is specifically designed for security seals on PE related material.It has good function at temperature from -30~80℃. SK-20 follows ICAO State Letter AS 8/11~07/26 technical specificaion and proved to be known supplier for STEBs (Security Tamper Evident Bags).



Forensics expert evidence collection



ICAO Air Port duty free shopping bags for Liquids,Aerosols and Gels.

The product is aiming at fields like money bag , evidence bags , courier bags , food bags , mail selling package , 3C product sealing and so on.

Total Thickness	0.060mm ~ 0.065mm		
Liner	Mylar Film 0.050mm		
Carrier	0.050mm Matt Printing OPP		
Standard Size	30mm* 1000M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 48hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 24hrs		
Peel Strength (PE Film) (PSTC-1)	> 200 g/2.5cm	> 7.05 OZ/in	> 1.95 N/2.5cm

SK-80XX

SK-80 Partial transfer security tape is with film liner; when liner peeled off, glue and printing will partially transferred over to the substrate.

Total Thickness	0.060mm ~ 0.065mm		
Liner	Mylar Film 0.050mm		
Carrier	Mylar Matte Film 0.045mm		
Standard Size	30mm* 1000M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 6hrs		
Adhesion (PSTC-1)	> 400 g/2.5cm	>14.11 OZ/in	> 3.90 N/2.5cm

The product is with excellent rubber adhesive which give strong bonding to PE bag. This glue system provides good cold resistant to - 40℃.

It is designed as an easy and cost effective way to secure various types of plastic bags like money bag (no heat requirement), food bags, courier bags, mail selling, 3C product pack.



Currier Bags voiding illustration

SK-21XX-3

SK-21-3 Partial transfer security tape is with paper liner; glue and printing partially transferred over to the substrate after liner peeled off.

Total Thickness	0.060mm ~ 0.065mm		
Liner	White Glassine PE Single Coated paper 100g/m ²		
Carrier	OPP Matte Printing Film 0.050mm		
Standard Size	480mm * 500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 48hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 24hrs		
Peel Strength (PE Film) (PSTC-1)	> 200 g/2.5cm	> 7.05 OZ/in	> 1.95 N/2.5cm



➡ Luxury food present package with secure seal for hygiene

The 100g paper liner provides a good property for label die cutting; used for many occasions. With superb temperature resistant from -30~80℃, it gives a good solution for label seal of evidence bags, courier bags, food bags, mail selling, 3C product or QC label for PE container.

SK-81XX/61XX



⬅ Security seal guarantee integrity for 3C product from switching or usage.

SK-81/61 Partial transfer security tape is with paper liner; glue and printing partially transferred over to the substrate after liner peeled off.

Total Thickness	0.065mm ~ .070mm/ 0.060mm ~ 0.065mm		
Liner	White Glassine PE Single Coated paper 100g/m ²		
Carrier	Matte PET 0.045mm/ 0.040 mm		
Standard Size	480mm *500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 24hrs		
Holding Power for Temp. Resist. 60℃(PSTC-7) (0.5kg)	> 3hrs		
Adhesion (PE Film) (PSTC-1)	> 200 g/2.5cm	> 7.05 OZ/in	> 1.95 N/2.5cm



➡ Healthy food, vitamin bottle sealed in case of fraudulency

SK-81/61 is specifically designed for secure seal on PE bag or PE related material without temperature endurance request.

Suitable for label die cutting and is designed as an easy and economic way for courier bags, food bags, mail selling, 3C products , QC inspection seal.

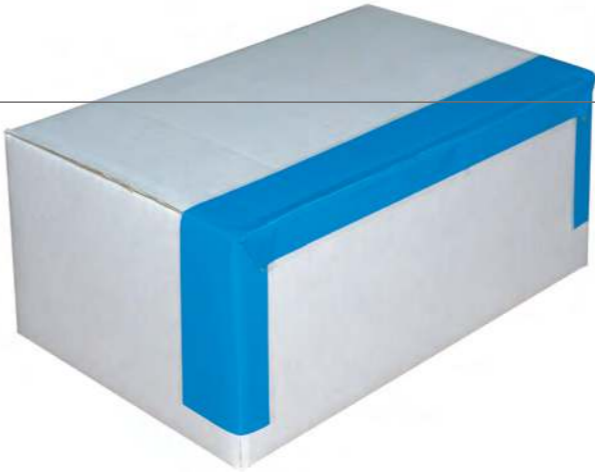
SK-62XX-3

SK-62-3 Partial transfer security tape is for carton sealing; the glue and printing partially transferred over to the substrate after peeling.



⬆ Partial Transfer illustration

This product is designed as an easy and economic solution for securing carton, paper materiel. cost effective, strong bonding and good heat & cold resistant are its feature.



⬆ Good voiding on rough recycle box

The product is mainly designed for casinos, post office, bank, or whatever industry has transportation safety concerns. It is applicable for production direct delivery, fresh food, mail selling, ballot seal and medicine package.

Total Thickness	0.070mm ~ 0.075mm		
Liner	None		
Carrier	PET film 0.040mm		
Standard Size	48mm * 50M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 24hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 24hrs		
Adhesion (PE film)(PSTC-1)	500 ~ 750 g/2.5cm	17.64 ~ 26.45 OZ/in	4.88 ~ 7.32N/2.5cm

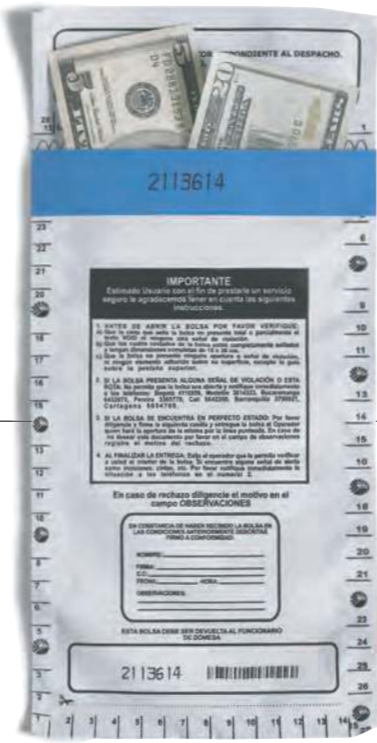
SK-50XX

SK-50 Partial transfer security print film.

Economic design property, good match with hot melt glue. With standard green and blue liner, it gave a very observable voiding performance. Fraud Void message will be revealed when tape opened or violated. Hot melt spray equipment is needed for bagging, coating and laminating.

Good for casinos, banks, cash-in-transit operators, courier bags, money bag (no heat cold requirement),evidence bags, food bags, mail selling bag, 3C product pack.

Total Thickness	0.040mm		
Carrier	HDPE Film ~ 0.040mm		
Standard Size	480mm * 1000M		
Void Performance % (180°)	95% ↑		
Void Performance % (90°)	95% ↑		



⬆ Security bags used in bank for money transfer

SK-84XX

SK-84 Total transfer security tape with paper liner, mainly designed for paper material; The glue and printing will be totally transferred over to the substrate after peeling.

The adhesive leaves a void text on top of the substrate when opened or violated. This series of security tape has a great revealing performance even on the very poor package, like recycle paper or very rough surface, giving strong adaptability to multiple applications.

➡ Pizza box sealed to assure the food safety before delivery



Total Thickness	0.105mm ~ 0.115mm		
Liner	White Glassine PE Single Coated paper 100g/m ²		
Carrier	Matte PET 0.045mm		
Standard Size	480mm × 500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 24hrs		
Holding Power for Temp. Resist. 60°C (PSTC-7) (0.5kg)	> 3hrs		
Peel Strength 180° (PSTC-1)	< 60 g/2.5cm	< 2.11 OZ/in	< 0.58 N/2.5cm
Peel Strength 90° (PSTC-1)	< 90 g/2.5cm	< 3.17 OZ/in	< 0.87 N/2.5cm

➡ Security tags used with printer; strong safety guarantee for label stealthily exchanged.

The paper liner is easy for die cutting and widely used for documents, present seal, medicine packaging or production direct delivery, PE Shrinkable Film, high value 3C products, mail selling, food delivery.

Ballot papers sealing, event admission tickets sealing, signature seal, food package, RFID label, medical testing(blood test; urine test), medicine bottle seal, paper document sealing as well.

➡ High price products need to be seriously secured with tamper evident label



SK-63XX-3

SK-63-3 tamper evident packaging tape mainly designed for carton sealing; glue and printing will be totally transferred over to the substrate after peeling.

This security tape has a great voiding revealing performance even on the very poor substrate, like recycle paper or very rough surface making it more adaptable for use. Cold and heat resistance is from -30 ~ +80℃.



➡ SK-63/84 void technology can be applied for very rough recycle box

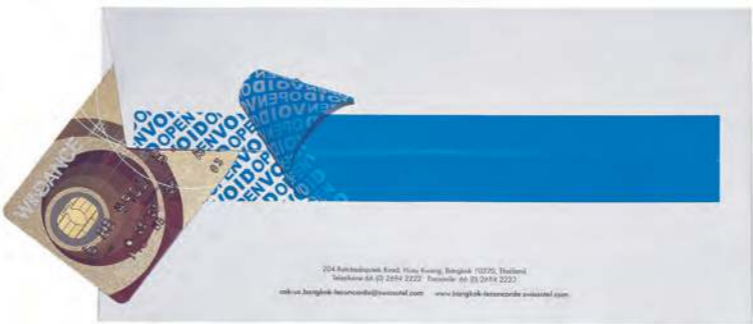


Mainly used for carton sealing for high value products, delicacies food direct sell from production, PE shrinkable film, fresh fruit package, high value 3C products, mail selling, food delivery, election ballot sealing, event admission tickets sealing,

Total Thickness	0.090mm ~ 0.100 mm		
Liner	None		
Carrier	PET film 0,040mm		
Standard Size	48mm × 50M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 48hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 6hrs		
Adhesion (PSTC-1)	>1000 g/2.5cm	>35.27 OZ/in	>9.76 N/2.5cm
Peel Strength 180° (PSTC-1)	< 80 g/2.5cm	< 2.82 OZ/in	< 0.78 N/2.5cm
Peel Strength 90° (PSTC-1)	< 120 g/2.5cm	< 4.23 OZ/in	< 1.17 N/2.5cm

SK-85XX

SK-85 is tamper evident security tape with paper liner; mainly designed for paper material



⬅ To avoid infringement from others before initiating the credit card.



The product is specifically designed to overcome problems on securing carton or paper material . The glue and printing will be totally migrated to substrate after peeling, leaving voiding message on the carrier.

⬅ Experinment formula or testing sample

SK-66XX-3

SK-66 is total transfer security tape without liner; mainly designed for paper material.Good bonding and cold and heat resistance (-30 ~ +80℃) are its feature.

SK-6612/13/14 are the unique design for dual color voiding pattern. The voiding brought up a two colors text when opened or violated the liner, giving the very observable message to people monitoring the delivery process. Three compound colors are available:



⬇ Sealing the conference phone in the shipping box

⬆ SK-6613/ 6614 dual color illustation

Mainly used for carton package sealing for high value products,delicacies food, direct sell from production,fresh fruit, sea food, election ballot seal, medicine package

Total Thickness	0,095mm ~ 0,105mm		
Liner	None		
Carrier	Transparent PET Single Coated film -0,040mm		
Standard Size	48mm × 50M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (1kg)	> 48hrs		
Holding Power for Temp. Resist. 60℃(PSTC-7) (1kg)	> 6hrs		
Adhesion (PSTC-1)	>1000 g/2.5cm	>35.27 OZ/in	>9.76 N/2.5cm
Peel Strength 180°	< 150 g/2.5cm	< 5.29 OZ/in	< 1.46 N/2.5cm
Peel Strength 90°	< 180 g/2.5cm	< 6.35 OZ/in	< 1.76 N/2.5cm

➡ TV shopping with secure seal/Good guarantee for customers

Paper liner has great property for die cutting ; used for documents, present seal, medicine packaging,3C products,mail selling, food delivery, election ballot seal, event admission tickets, signature seal, food package seal, medicine package.



➡ Envelope security sealing with signature/Good way to keep confidentiality

Total Thickness	0.105mm ~ 0.115mm		
Liner	White PE single coated release paper 100g/m ²		
Carrier	Matte PET 0.045mm		
Standard Size	480mm × 500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 24hrs		
Holding Power for Temp. Resist. 60℃(PSTC-7) (0.5kg)	> 3hrs		
Peel Strength 180° (PSTC-1)	< 180 g/2.5cm	< 6.35 OZ/in	< 1.76 N/2.5cm
Peel Strength 90° (PSTC-1)	< 250 g/2.5cm	< 8.82 OZ/in	< 2.44 N/2.5cm





SK-88XX-Z

SK-88-Z is Non Transfer security tape with paper liner. After peeling off, voiding message will be triggerred but left no residue or glue on the substrate.

This product leaves no residue while tampered with. This unique technology exclusive to Seal King is an perfect solution for packaging which has request for re-usable or for maintaining clean appearance of the package. This great adhesive has a good performance for sub-zero condition as well.



➦ PVC bags sealing for temperate storing in the entry of special occasions, which allowed no electrical instruments bringing in.



➦ Security check for air plane; label sealing for avoiding illegal immigration.

Applications are software CD packs, blood testing samples , warranty label,magnetic or chip cards, car tow sealing, air plane door sealing, safe, post office or bank money box, cell phone case, battery, air line duty free cart sealing, lavatory door sealing, high energy surface post office safe, RFID, bank, hotel, safe,container seal, PVC bags, bus, train door sealing and so on.

Total Thickness	0.067mm ~ 0.075mm		
Liner	White PE single coated release paper 100g/m ²		
Carrier	Matte PET 0.045mm		
Standard Size	480mm× 500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 48hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 24hrs		
Adhesion (PSTC-1)	900~1400	31.74~49.38	8.78~13.66
	g/2.5cm	OZ/in	N/2.5cm



➦ Blood test sample for medical testing, sealed to prevent contamination.

SK-88 Non Transfer security tape is with paper liner. After peeling off, the tape will be voiding but left no residue or glue on the substrate.

SK-88' s special property for voiding give package a clean and neat surface after usage, raising value and integrity for your product. The matte surface is writeable and printable; the paper liner can be easily die cut into labels and fill out many different applications.



Non transfer illustration

Total Thickness	0.097mm ~ 0.105mm		
Liner	White PE single coated release paper 100g/m ²		
Carrier	Matte PET 0.045mm		
Standard Size	480mm * 500M		
Initial Tack (PSTC-6 #14 ball)	< 10cm		
Holding Power (PSTC-7) (0.5kg)	> 72hrs		
Holding Power for Temp. Resist. 60℃ (PSTC-7) (0.5kg)	> 24hrs		
Adhesion (PSTC-1)	> 1000 g/2.5cm	> 35.28 OZ/in	> 9.8 N/2.5cm

Tea package with security seal gives more safety guarantee and adding value for being a present



Label stick on train door for trespass prevention, giving public transportation more safety for passengers



Warranty label seal for Cell phone or battery

This unique technology, which left no residue on the surface, is exclusive to Seal King. It is a perfect solution for packaging which has request for re-usable or for maintaining clean appearance of the package. This product has good performance under normal temperature.



To assure hige price product being fraud or damaged during transportation



RFID with security seal will give more secure to your shipping goods preventing your good is wrongly identified

Police use secure seal for car towing giving owner safety guarantee



Security Seal in armory or ordnance for assuring safety of weapons usage



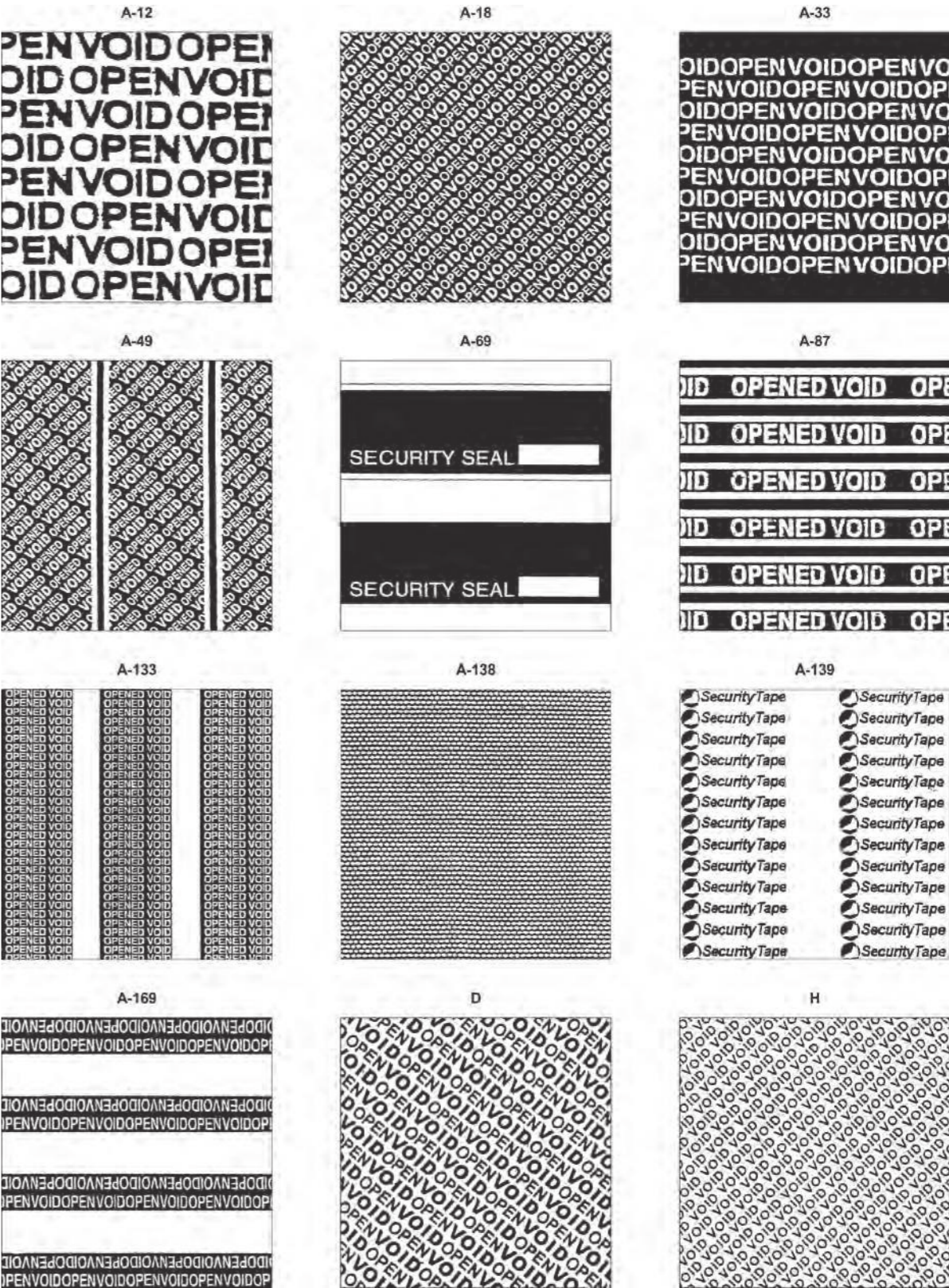
Applications includes CD packs, blood samples and magnetic or chip cards brown and white goods warranty labels. Car Tow sealing tag, safe, post office & bank money box, cell phone case, battery, air port duty free cart sealing, lavatory door sealing, plastic cans, medical(Testing), RFID, bank, hotel, container seal or high energy surface and so on.

3C products repair warantee label for anti-tearing

Stencil Color

<div>Product Code</div> <div>SK-0000</div> <div></div> <div>Description</div> <div>Black</div>	<div>Product Code</div> <div>SK-0001</div> <div></div> <div>Description</div> <div>Blue</div>	<div>Product Code</div> <div>SK-0002</div> <div></div> <div>Description</div> <div>Red</div>	<div>Product Code</div> <div>SK-0003</div> <div></div> <div>Description</div> <div>Green</div>
<div>Product Code</div> <div>SK-0004</div> <div></div> <div>Description</div> <div>Yellow</div>	<div>Product Code</div> <div>SK-0005</div> <div></div> <div>Description</div> <div>Grey</div>	<div>Product Code</div> <div>SK-0006</div> <div></div> <div>Description</div> <div>Purple</div>	<div>Product Code</div> <div>SK-0007</div> <div></div> <div>Description</div> <div>Transparent</div>
<div>Product Code</div> <div>SK-0008</div> <div></div> <div>Description</div> <div>White</div>	<div>Product Code</div> <div>SK-0010</div> <div></div> <div>Description</div> <div>Vermilion</div>	<div>Product Code</div> <div>SK-0011</div> <div></div> <div>Description</div> <div>Silver</div>	<div>Product Code</div> <div>SK-0012</div> <div></div> <div>Description</div> <div>Maroon</div>
<div>Product Code</div> <div>SK-0013</div> <div></div> <div>Description</div> <div>Dark Green</div>	<div>Product Code</div> <div>SK-0014</div> <div></div> <div>Description</div> <div>Hyacinth</div>	<div>Product Code</div> <div>SK-0015</div> <div></div> <div>Description</div> <div>Royal Blue</div>	<div>Product Code</div> <div>SK-0016</div> <div></div> <div>Description</div> <div>Florid</div>

Hidden Message



Summary

Product code		SK-20-3	SK-80	SK-21-3	SK-81 SK-61	SK-62-3	SK-50
Typical physical							
Release Liner		PET 0.05mm	PET 0.05mm	paper 100g/M2	paper 100g/M2	N/A	N/A
Backing		OPP 0.050mm	PET 0.045mm	OPP 0.050mm	PET 0.045mm / 0.040mm	PET 0.040mm	HDPE 0.040mm
Adhesive		Acrylic	Rubber	Acrylic	Acrylic	Acrylic	N/A
Total thickness (environmental condition)		0.060mm ~ 0.065mm	0.060mm ~ 0.065mm	0.060mm ~ 0.065mm	0.065mm~ 0.070mm / 0.060mm~ 0.065mm	0.070mm ~ 0.075mm	0.040mm
Adhesion / Peel Strength 180° (PSTC-1)	g/25mm	> 200	> 400	> 200	> 200	500~750	—
	OZ/in	> 7.05	> 14.11	> 7.05	> 7.05	17.64~26.45	—
	N/25mm	> 1.95	> 3.90	> 1.95	> 1.95	4.88~7.32	—
Special condition		Cold-Heat Resistance -40℃~80℃	—	Cold-Heat Resistance -40℃~80℃	—	Cold-Heat Resistance -30℃~60℃	—
Shelf Life		12 Months	12 Months	12 Months	12 Months	12 Months	12 Months

Product code		SK-84	SK-63-3	SK-66-3	SK-85	SK-88-Z	SK-88
Typical physical							
Release Liner		paper 100g/M2	N/A	N/A	paper 100g/M2	paper 100g/M2	paper 100g/M2
Backing		PET 0.045mm	PET 0.040mm	PET 0.040mm	PET 0.045mm	PET 0.045mm	PET 0.045mm
Adhesive		Acrylic	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
Total thickness (environmental condition)		0.105mm ~ 0.115mm	0.090mm ~ 0.100mm	0.095mm ~ 0.105mm	0.105mm ~ 0.115mm	0.067mm ~ 0.075mm	0.097mm ~ 0.105mm
Adhesion / Peel Strength 180° (PSTC-1)	g/25mm	< 60	< 80	< 150	< 180	900~1400	> 1000
	OZ/in	< 2.11	< 2.82	< 5.29	< 6.35	31.74~49.38	> 35.28
	N/25mm	< 0.58	< 0.78	< 1.46	< 1.76	8.78~13.66	> 9.80
Special condition		—	Cold-Heat Resistance -40℃~80℃	Cold-Heat Resistance -40℃~80℃	—	Cold Resistance -40℃	—
Shelf Life		6 Months	12 Months	12 Months	6 Months	12 Months	12 Months

● Operation Condition: 18℃~25℃ ; R.H. 55% +/- 5%