

佳承精工股份有限公司 CHIA CHERNE INDUSTRY CO., LTD.

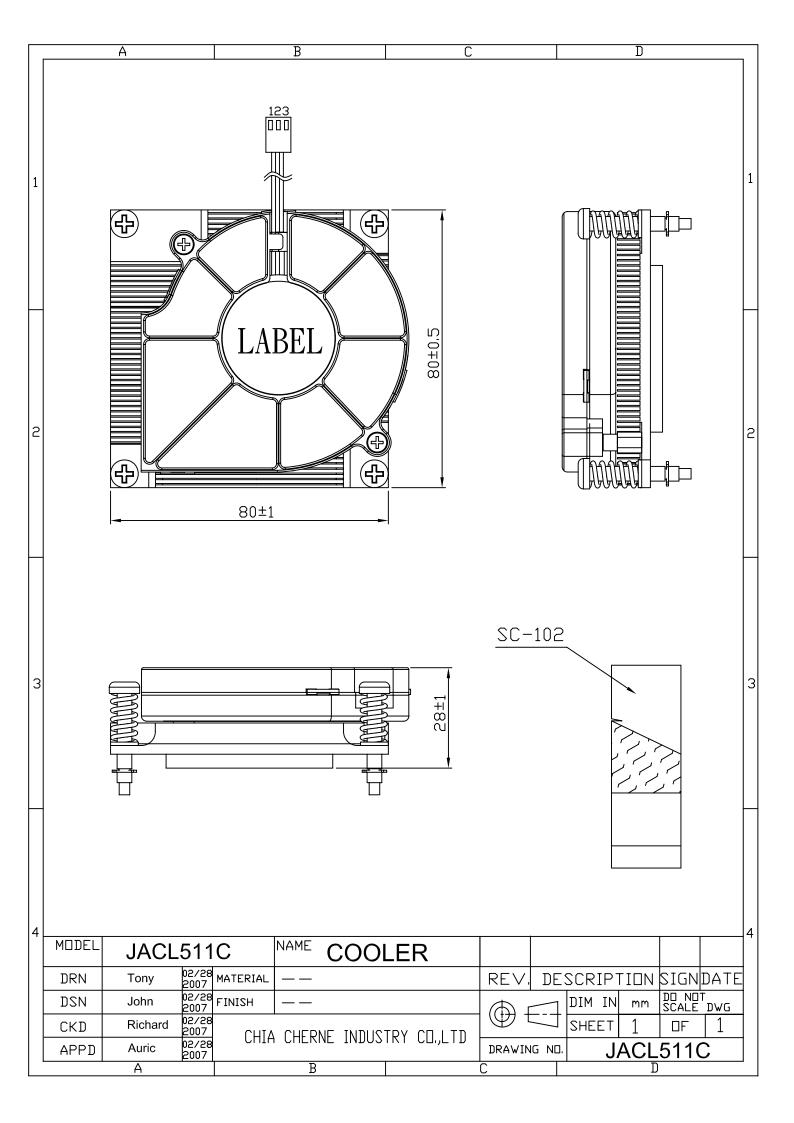
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規 TYPE/M	and a second	JACL First Version Va		3/01/07)	
客 BUYEI	<u>د</u>	COOLIA	CHERNE RY CO. LTD.		
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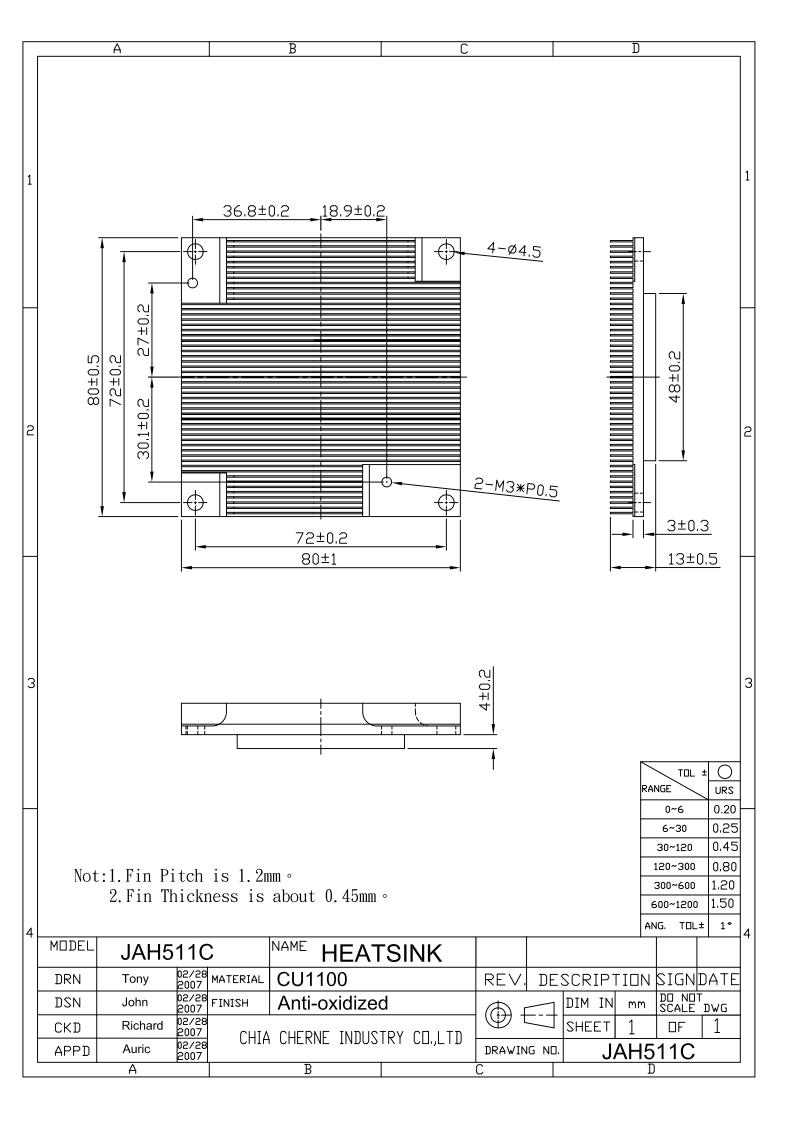
客户承認印 APPROVAL SIGNATURES									
審 核 APPROVER	確認 CHECKER	主 辨 HANDLER	結論 CONCLUSION	印 章 SIGNATURE					

NO. 55, Alley 121, Lane 175, Kousheng Rd., Changhua City, Taiwan 彰 化 市 國 聖 路 175 巷 121 弄 55 號 TEL. +886 4 732 3090 FAX. +886 4 738 3155 http://www.cooljag.com

JACL511C

Application	Intel Socket 775 - 1U						
Specification							
Weight	~ 387g						
Dimension	80L×80W×28H (mm)						
Heat sink							
Model	JAH511C						
Material	Copper C1100						
Fin pitch	1.2 (mm)						
Fin thickness	~0.45 (mm)						
Rated Voltage	Rated Voltage DC12V						
Rated Current	0.80A						
Rated Speed	5500RPM ±10%						





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CERTIFICATE OF ANALYSIS

<u>Freedom of Embrittlement</u> The freedom of embrittlement is tested according to ASTM B 577 (Closed Bend Test)

Typical Analysis (ppm):

Pb	Bi	As	Sb	Sn	Zn	Fe	Ni	AG	Se	Te	S	Р
4	<1	3	3	<1	<3	8	8	12	<1	<1	8	P appr. 30

The requirements are met.

The aforesaid data are given for purposes of technical quality description only and do not constitute guaranteed properties in legal terms.

Irrevocable Doc. Credit Number 6AEJR10002201059 dated 060414 of Bank of Taiwan Taipei (Shihlin Branch)

NORDDEUTSCHE AFFINERIE Aktiengesellschaft Logistics Department

V. K. Tabel



Norddeutsche Affinerie AG Hovestraße 50 D-20539 Hamburg Telefon: 040/7883-0 Telefax: 040/7883-2255

info@na-ag.com www.na-ag.com



GWO CHERN INDUSTRIAL CO., LTD. NO. 186-28, HAI HU VILLAGE, LU CHU HSIANG, TAO YUAN HSIEN, TAIWAN

 Report No.
 : CE/2006/75552

 Date
 : 2006/07/26

 Page
 : 1 of 3

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	JIS C1100
Sample Received	:	2006/07/19
Testing Period	:	2006/07/19 TO 2006/07/26

<u>Test Result(s)</u>

: - Please see the next page(s) -

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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Test Result(s)

PART NAME NO.1

COPPER COLORED METAL

		Nr. (1 1	MDI	Result
Test Item (s):	Unit Method		MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	8.2

NOTE: (1) N.D. = Not Detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

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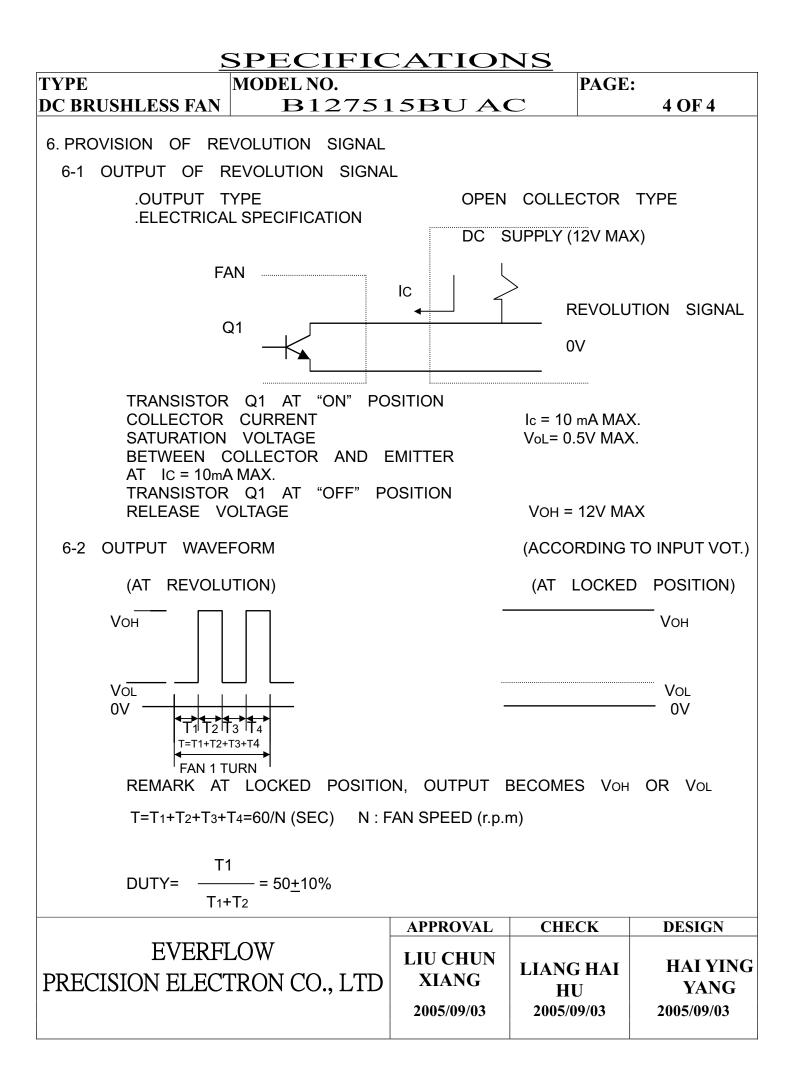
** End of Report **

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	SPECIFICATIONS								
TY	PE	MODEL NO.			PA	GE:			
DC	BRUSHLESS FAN	B12751	581	$\mathbf{3UAC}$ 10F4					
1.		DIMENSIONS ATERIAL MATERIAL	BRUSHI : REFER : LEAD-F	LESS TO DW FREE PI FREE PI	FAN. 'G. NO. HT-0 LASTIC {UL 9 LASTIC {UL 9	01 94V-0}			
2	ELECTRICAL SPECIF								
	ITEMS	STANDARD		REMAF	RKS				
	RATED VOLTAGE	12 V DC							
2-2	START VOLTAGE	5 V DC		POWE	R ON/OFF				
2-3	OPERATING RANGE	7 V~13.2 V DC							
2-4	CONSUMING CURRENT	0.80 Amp (MAX. 0.80 Amp)	IN FRE	E AIR AT RA	TED VOLTAGE			
2-5	CONSUMING POWER			IN FRE	E AIR AT RA	TED VOLTAGE			
2-6	RATED SPEED	5500rpm +/- 8%rp	m	IN FREE AIR AT RATED VOLTAGE					
2-7	AIRFLOW	MAX. 10.48CFM MAX. 0.30 m ³ /min		AT RATED VOLTAGE AT ZERO STATIC PRESSURE					
2-8	STATIC PRESSURE	MAX.17.58 mmH ₂ C)	AT RATED VOLTAGE AT ZERO AIRFLOW					
2-9	SOUND LEVEL	51 dB(A)		IN FREE AIR AT RATED VOLTAGE					
					1m 1m 1m MICROPHONE FAN				
		OIII	APPR	JVAL	СНЕСК	DESIGN			
PR	EVERFL ECISION ELECT	LIU C XIA 2005/0	NG	LIANG H HU 2005/09/03	YANG				

TYPE MODEL NO. B 1 2 7 5 1 5 B U AC PAGE: 2 0 F 4 2:10 OPERATING TEMPERATURE -10°C -70°C (NORMAL HUMIDITY) 2.01 S TORAGE 2.00°C -75°C (NORMAL HUMIDITY) 2:11 STORAGE ROTATION -20°C -75°C (NORMAL HUMIDITY)		S	PECIFIC	CATIO	NS		
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				2003/09/03	2005/09/03	2003/09/03	

SPECIFICATIONS						
TYPE MODEL NO.		PAGE				
DC BRUSHLESS FAN B12751	5BUA	\mathbb{C}	3 OF 4			
3.LIFE EXPECTANCE (MTBF) MORE THAN 90% SHALL KEEP RUNNIN 50,000 HOURS AT RATED VOLTAGE IN 2 RELATIVE HUMIDITY CONDITION. FAN LIFE SHOULD BE REDEFINED WH	5℃ AMBIENT T	EMPERATURE A	ND 65%			
4.LOCKED ROTOR NO DAMAGE SHALL BE FOUND FOR (ROTOR.	CONTINUOUS O	NE HOUR AT LO	CKED			
5.SPECIAL ITEMS 5-1 SPECIFICATION CHANGE ANY CHANGES TO THE PARAMETERS WILL BE DETERMINED BY MUTUAL AC			Т			
5-2 UNCERTAINTY IN THE EVENT THAT ANY QUESTIONS ANY STATEMENTS NOT SPECIFIED IN DISCUSS AND DETERMINE A SOLUTIO	THIS DOCUME	NT BOTH PARTI	-			
5-3 NOTE 1.PLEASE CONSIDER HAVING AN INDEF IN THE EVENT THAT THE FAN SHOULI			И			
2.PLEASE MAKE REFERENCE TO ATTAC INSTRUCTIONS AND DWG.No.:HT-001						
	APPROVAL	CHECK	DESIGN			
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2005/09/03	LIANG HAI HU 2005/09/03	HAI YINO YANG 2005/09/03			



SPECIFICATIONS

IMPORTANT NOTES & GENERAL INSTRUCTIONS

1. Customer shall confirm the matching and reliability of fan on actual set or unit application. This include confirmation on set or unit life, electrical noise, mechanical noise,

vibration, static electricity, electric power noise, drift, electric resonance between motor and control circuit, mechanical resonance between motor and chassis, irregular movement of set due to motor noise, irregular movement of set in strong electromagnetic field, damaged by lightning surge earthing method etc.

- 2. Any revisions on the specification shall be done based on mutual discussion and agreement.
- 3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.
- 4. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given, fan will be delivered based on our standard judgment.
- 5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fans.

	APPROVAL	CHECK	DESIGN
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2005/09/03	LIANG HAI HU 2005/09/03	HAI YING YANG 2005/09/03

REVISES								
Image: set of the set of								
PIN 2:RED WIRE(+) PIN 3.YELLOW WIRE(SIGNAL) 2.HOUSING:2510-3P OR EQUIVALENT 3.TERMINAL:2515T OR EQUIVALENT								
TRCANGLE METHOD UNIT: mm		MODEL NO.		B127515BUAC6A302				
APPROVE LIU CHUN XIANG 2006/01/07		PART					N	
CHECK LIANG HAI HU 2006/01/07		NAME			DC	FA	AIN	
DRAWING HAI YING YANG 2006/01/07	X	DRAWING NAME		()UTI	LIN	E	
EVERFLOW PRECISION ELECTRON CO. ,LTD.	CODE	H	T - 0	01			PAGE: 1	

EVERFLOW FAN LIFE TEST REPORT B127515BU AC

1.Test Conditions

EVERFLOW Axial Fan P/N B127515BU AC rotates continuously under the

following conditions:

a.Ambient Temperature=70deg.C/RH65%.

b.Voltage Applied=12V

c.Number of Fan Tested =10PCS

2. Estimated life

Everflow definition of life is when fan reaches the end of its' life, the rotation speed of fan decreases by under 20% comparing with its original rotation speed at start.

3.Acceleration Test Result

a.Running continuously for 15,800Hrs at temperature 70°C without deterioration of rotation speed more than 20%.

b.Test data as attached.

4.Fan Life Estimate(L10)

Following is calculation formula to be applied to estimate the life of fan at 25deg. C ambient temperature .

a.Accelerated Test Temperature=70 deg.C

b.Calculation Formula

 $L10 = T_{70} \times EXP^{((EA/K)*(1/TU-1/TA))}$

where each alphabetical symbol means as follows:

L10=Life at 25 deg. C ambient temperature.

T 70=life at 70 deg.C ambient temperature

EA=Action energy $(0.3 \sim 0.5)$ fan & motor : 0.4

K=Boltemanns constant 8.63×10^{-5}

TU=Absolute temperature of using

TA=Absolute temperature of testing

c.Calculation Result

L10=121,502Hrs

Test Data for B127515BU AC

B127515BU AC life test data as below:

15,800H

15,800Hrs N=10PCS

Test Temperature:70°C

Rated Voltage:12V

ambient temperature:70°C

Rated Temperature:25°C

Test	Equipment		
	Equipment	Brand/Model	Specification
	DC power supply	TES-6210	Voltage:0~30V Current: 0~3A
	Flasher	SP-DS220A	Range:300~30000rpm
	Temperature/Humidity Cycling Chanber	GTH-099-40-1P	-20°C~100°C R.H.20%-98%
	Vibration Tester	King Dsign KD-9363	2-2000HZ
	Thermal Shock Tester	Giant Force GTST-108-65	-65°C~150°C

Test data & Test result

70deg C	N=10PCS				
	Before	test data	After test data		
No.	Speed(RPM)	Current(Amp)	Speed(RPM)	Current(Amp)	
1	5486	0.56	5511	0.55	
2	5478	0.57	5486	0.56	
3	5468	0.58	5489	0.57	
4	5320	0.57	5389	0.55	
5	5426	0.57	5268	0.57	
6	5392	0.56	4293	0.67	
7	5398	0.58	5479	0.58	
8	5472	0.56	5378	0.58	
9	5326	0.57	5296	0.56	
10	5400	0.58	5359	0.59	

NO.6 was found rotation speed has deteriorated more than 20% and current has risen 15% when it run continuously for 15,800 hours at temperature 70° C.

It was show fan has reached the end of its' life.

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S&E Technologies Laboratory

Certification of Conformity

Date of Issue: September 23, 2005

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Attestation number: SE05I-173S

S&E Technologies Laboratory Ltd. hereby declares that testing has been completed and reports have been generated for:

Product: DC FAN X1X2X3X4X5X6 Model: Note: Model designation see attachment EVERFLOW PRECISION ELECTRONIC(DONGGUAN) CO.,LTD Applicant: Gekeng Yanjiang Industrial Zone, Heng Li Town, Dong Guan City, Guang Dong Province, China EVERFLOW PRECISION ELECTRONIC(DONGGUAN) CO.,LTD Manufacturer: Gekeng Yanjiang Industrial Zone, Heng Li Town, Dong Guan City, Guang Dong Province, China And, in accordance to the following Applicable directives: 73/23/EEC Low Voltage Directive (as amended) That this product has been assessed against the following Applicable Standards; LVD EN 60950-1: 2001 Therefore, S&E Technologies hereby acknowledges that the applicant may issue a DECLARATION of CONFORMITY and apply the CE mark in accordance to European Union Rules. Karbon Y. Chung Attestation by: 2000 HORIZE Signature Page 1 of 3 The CE marking may only be used if all relevant and effective EC Directives are complied with. E Fax: 86-755-26630557 Tel: 86-755-26636573 http://www.seps.com.cn

E.

REREPERENCE REPERENCE

S&E Technologies Laboratory

Certification of Conformity

Date of Issue: September 23, 2005

Attestation number: SE05I-173S

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軍軍軍軍

Attachment

Model Designation: X1X2X3X4X5X6

X1 = Frame Type (R, F, T, S, B, K, X)

X2 = Input Voltage (B=12V DC, C=24V DC)

X3 = Size of Fan (60, 70, 75, 80, 90, 92, 120)

X4 = Thickness of Fan (10, 15, 20, 25, 30, 32, 38)

X5 = B or II

(B=Two ball II = S: One sleeve; D: One ball one sleeve; B: Two ball) X6 = Speed

(L=Low speed; M=Medium speed; H=High speed; U=Ultra high speed)

Model Name	Voltage (V)	Current (A)	Speed (RPM)
R(S/T)B6010 II U(55)	12	0.35	5500
(R/F/T)C6025 II L	24	0.14	3600
(R/F/T)C6025 II M	24	0.16	4000
(R/F/T)C6025 II H	24	0.20	4550
(R/F/T)C6025 II U	24	0.25	4900
RB7038BL	12	0.28	3800
RB7038BM	12	0.35	4800
RB7038BH	12	0.50	5800
RB7038BU	12	0.80	- 6800
RB8020 II L	12	0.20	2400
RB8020 II M	12	0.40	3600
RB8020 II H	12	0.55	4200
RB8020BU	12	1.00	4800
RC8032 II L	24	0.20	3000
RC8032 II M	24	0.25	3600

Page 2 of 3

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE

Tel: 86-755-26636573 Fax: 86-755-26630557 http://www.seps.com.cn

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S&E Technologies Laboratory

Certification of Conformity

Date of Issue: September 23, 2005

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Attestation number: SE05I-173S

Continuation

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Model Name	Voltage (V)	Current (A)	Speed (RPM)
RC8032 II H	24	0.30	4200
RC8032 II U	24	0.40	4800
FB8038BL	12	0.18	3000
FB8038BM	12	0.25	3600
FB8038BH	12	0.30	4200
FB8038BU	12	0.50	4800
FC9025 II L	24	0.12	2200
FC9025 II M	24	0.18	2800
FC9025 II H	24	0.25	3200
FC9025 II U	24	0.35	3600
FB9238BL	12	0.50	3200
FB9238BM	12	0.70	3600
FB9238BH	12	0.80	4200
FB9238BU	12	1.20	4800
FB1232BL	12	0.25	1800
FB1232BM	12	0.50	2200
FB1232BH	12	0.65	~ 2600
FB1232BU	12	1.00	3000
BB7515BL	12	0.40	4000
BB7515BM	12 *	0.50	4500
BB7515BH	12	0.60	5000
BB7515BU	12	0.80	5500
BB7530BU	12	0.42	3800

The CE marking may only be used if all relevant and effective EC Directives are complied with.

Tel: 86-755-26636573 Fax: 86-755-26630557 http://www.seps.co



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PRODUCTION AND A PROPERTY OF A

MR. JANICE EVERFLOW PRECISION ELECTRONIC (DONG GLDN) CO LID GE KENG INCUSTRIAL ZONE HENG LI TOWN DONGGURN, GLDNEDONG 523460 CHINA

Date: 2005/08/03 Subscriber: 762737001 File No: E236658 Project No: 05CA29583 PD No: 05018252 Type: R PO Number: LIUCHUN XIANG

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed. Taske

Date	V	01	Sec	Pag	ges
2003/06	/27	1		New	Index Page (a) 2
2005/07	/29	1	7		Add New Proc/Report Sect

Revised	Date
-0.5	2005/07/29

Inspections at your plant will be conducted under the supervision of Mr. Li Wei Qun, China National Import & Export Commodities Inspection Corp. (CCIC), 5th Floor, Zhong Chang Bldg., No. 6, Li Cheng Rd, Changping Town, Dongguan, Quangdong 523565, China. PHONE: +86-769-381-7010, 7011, 7012, 7013, 7015, ITVL, 466 765 201 7017, 2 MALL: ulic213aids-met.

Please filo revised pages and illustrations in place of material of like identity. New material should be filed in its proper materical order.

NUTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL China (Suzhou) Customer Service, PRONE: +86-512-6808-6400, FAX: +86-512-6808-4099, E-MAIL: customerservice.sz.crwcn.ul.com, referring to the above Project and/or FD Numbers.

This material is sent on behalf of Underwriters Laboratories Inc. pursuant to the Services Undertaking and Business Transfer Agreement between this affiliate and UL.

TPI File

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File E236658	Vol. 1 and Report	Sec. 7	Page 2	Issued: 200	5 07 29
	Models	V de		Α	
	FB9238BL FB9238BH FB9238BH FB9238BU FB1232BL FB1232BL FB1232BH FB1232BH FB1232BU	12 12 12 12 12 12 12 12 12		0.40 0.60 0.80 1.00 0.25 0.50 0.65	
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A CONTRACTOR

Note: Above (W) may be R, S or T; (X) may be R, F or T; (Y) may be S, D or B.

Zertifikat	Certificate			A
ertifikat Nr. <i>Certificate No.</i> 50040385	Blatt Page		·	TUV
hr Zeichen Client Reference	Unser Zeichen Or ZTW1-JPE- 1	ur Reference .0009602 002	Ausstellungsdatum 16.08.2005	Date of Issue (day/mo/yr)
Genehmigungsinhaber License Everflow Precision (Dong Guan) Co., Lt GeKeng Industrial S Heng Li Town Dongguan City, Guan P.R. China	zd. Zone	Everflow P (Dong Guan GeKeng Ind	City, Guangao	ctronic
Prüfzeichen Test Mark	Geprüft nach T EN 60950:	ested acc. to 2000		
TOV Rheinland Product Befory		85		
Zertifiziertes Produkt (Gen	äteidentifikation)		Lize	nzentgelte - Einheit nse Fee - Unit
(Type Designation) X1 steht für (stands X2 steht für (stands X3 steht für (stands X4 steht für (stands X5 steht für (stands X6 steht für (stands Nennspannung (Rated Nennstrom fissi (Rated Current) (stands	for): B oder (or) for):60, 70, 75, 80 for):10, 15, 20, 25 (for): B oder (or) (for): L, M, H oder Voltage): DC 12V od (che Anlage (ce Appendix)	X, T, K oder (o C 0, 90, 92 oder (3, 30, 32 oder (II c (or) U der (or) 24V	(or) 12 (or) 38	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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ANLAGE (Appendix): 1			
Dem Zeriffikar liegt unsere Prif- 1 Das Produkt entspricht den 0-8- 6 This certificate is based on our To ferifiks above-mentioned-regularmen	nd Zertifizierungsordnung zugrun	ide.		
Include more the inclusion of the line of the	esting and Certification Regulation ts, the production is subject to t	m. The product turveillance.	Zertifizieru	ingsstelle
TÜV Rheinland Product S Tel.:(+49/221)8 06 - 13 71 Fas	esting and Certification Regulation ts, the production is subject to the afecty GmbH, Am Graues	n. The product turveillance. n Stein, D-51105 Kö		- Mili

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TÜV Rheinland Group



Appendix to TÜV Bauart approved Certificate No.: R 50040385

Kind of equipment : Report number : Model Name :	X1X2X3X4X5X6 (X1 = R, F, S, B, X, T, K, D (frame type); X2 = B or C, B = 12V, C = 24V (operating voltage); X3 = 60, 70, 75, 80, 90, 92 or 12 (size); X4 = 10, 15, 20, 25, 30, 32 or 38 (thickness); X5 = B or II, B = two ball, II = S (one sleeve), B (two ball) or D (one ball and one sleeve); X6 = L (low speed), M (Medium speed), H (High speed), U
	= L (low speed), W (Medium op son) (Ultra High speed)

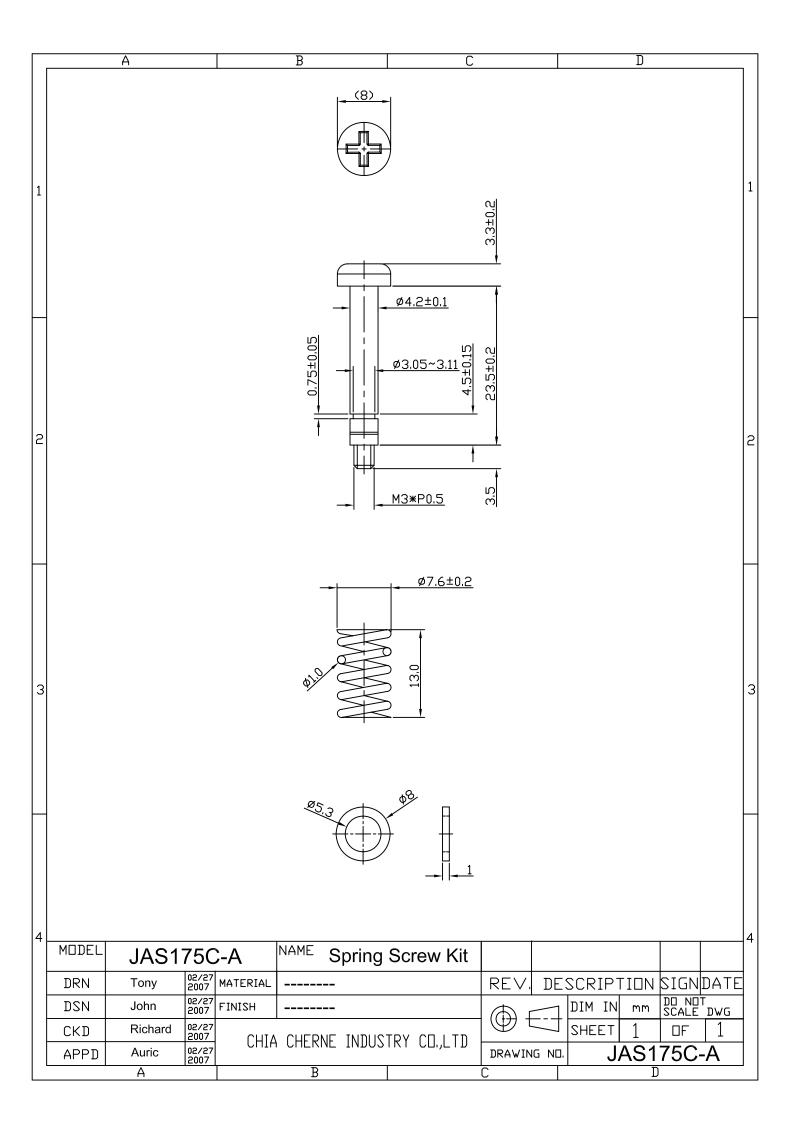
Series	Model No.	Voltage DC (V)	Current (A)
	#PODOCDU	12	0.80
	FB9238BH	12	1.20
9238	FB9238BU		0.25
	FB1232BL	12	0.50
	FB1232BM	12	
1232	FB1232BH	12	0.65
-	FB1232BU	12	1.00
	BB7515BL	12	0.40
_		12	0.50
7515	BB7515BM	12	0.60
1919	BB7515BH	12	0.80
	BB7515BU		0.42
7530	BB7530BU	12	0.76

Date: August 16, 2005



Certification Body Dipl-Ing. Friedrich Stoelzel

Page 2 of 2



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STANDARDS AND SPECIFICATIONS						88187108	2	中華民國高公帝小澤匡中納時1 LIN HAI (NDESTRIAL DISTRICT) HSIAO YANG, KAOHSIUNG (812), TAI WAN, REPUBLIC OF CHINA TELEX: 71105, 71283, 71415 XAOHS TEL.: (07)802-1111 FAX: (07)80
April 24			(A A A			· · · · · · · · · · · · · · · · · · ·	STEEL BANANA ANDIANA A	i-小港區中納 (1) (1) (1) (1) (1) (1) (1) (1)
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CHUNG YIN SPRING INDUSTRIAL CO., LTD. 36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY, TAIPEI HSIEN, TAIWAN, R. O. C. Report No. : CE/2005/90301 Date : 2005/09/07 Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

<u>Type of Product</u>	:	SAE1018-Ni
Sample Received	:	2005/08/31
<u>Testing Date</u>	:	2005/08/31 TO 2005/09/07

Test Result

PART NAME NO.1

: SILVER COLORED METAL

Tost Home (s):	II	Mathad	MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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廣泰金屬工業股份有限公司

KUANG TAI METAL IND. CO., LTD.

No. 20 Kung Yen Road, Erh Chen Tsun, Kuan Tien Hsiang, Tainan Hsien, Taiwan, R.O.C. TEL: 886-6-6987615~9 FAX: 886-6-6988792, 6987315

MILL CERTIFICATE

材質證明

Date 日期: 05/09/2005

Article 產品/品名	Carbon Steel S	pring Wire (KH	-3)			
Mfg. Date 製造日期	04/02/2005	Grade 等級	SW-C	Quantity 数量	58coils.	
Cert. No .材證號	DM1-540025	Size 尺寸	1.0 mm	Net Weight 淨重	2858.8 Kgs.	<u> </u> 8>
Customer 客户			盈豪五金有限公司	······································	-1	-1

Component 成份	С	Mn	Si	P	S	AI		
Specification % 適用規範	0.79-	0.60-	0.15-	0.030	0.030	····		
(JIS G3506 SWRH 82B)	0.86	0.90	0.35	max	max			
Heat No 2M708	0.82	0.83	0.22	0.015	0.003			
· · · · · · · · · · · · · · · · · · ·								

MECHANICAL PROPERTIES 機械性能

株庫 Requirsment	Diameter 線徑 mm	Tensile Strength 抗枢强度 Kgt/mm ²	<u>5 1或 注 月6</u> Surface 表面狀態		
rest N대	±0.030	1720-1960			····
01	1.001	1896	GOOD		
02	1.000	1910	GOOD	:	

KUANG TAI METAL IND. CO., LTD.

C. W. HT

Quality Assurance Department.



CHUNG YIN SPRING INDUSTRIAL CO., LTD. 36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY, TAIPEI HSIEN, TAIWAN, R. O. C. Report No. : CE/2005/90300 Date : 2005/09/07 Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

<u>Type of Product</u>	:	SWC-Ni
Sample Received	:	2005/08/31
<u>Testing Date</u>	:	2005/08/31 TO 2005/09/07

Test Result

PART NAME NO.1

: SILVER COLORED METAL

Tost Home (s):	II	Mathad	MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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1	2~600 0.20 0.50 0.40 0.61 ~1200 0.30 0.80 0.70 1.10	0.15 0.25 0.20 0.30 0.20 0.40 2.00 0.15 0.30 0.25 0.45 0.40 0.80 3.00	TOL ± MI M2 S1 S2 P1 P2 C URS 0~6 0.05 0.10 0.15 0.20 0.05 0.10 0.50 0.20 6~30 0.10 0.20 0.15 0.25 0.10 0.15 1.00 0.25						72±0.2	
	Richard	John	J/	ຜູ ສະ ບຸດ ບຸດ						N
2006	12/11			J.J.	\			$\overline{()}$		
	CHIA (FINISH -				72±	:0.2			
ω	CHERNE INDUSTRY CO.,LTD		Back Plate							ω
		- < h -								
4 5	SHEET 1 DF	DIM IN MM SCALE DWG								4
					7		Ψ		⊳	

U		Ω	B	⊳	
0~6 0.05 0.10 0.15 0.20 0.05 0.10 0.50 0.20 6~30 0.10 0.20 0.15 0.25 0.10 0.15 1.00 0.25 DRN 30~120 0.15 0.25 0.20 0.30 0.20 0.40 2.00 0.45 1.00 120~300 0.15 0.25 0.20 0.30 0.20 0.40 2.00 0.45 DSN 300~600 0.20 0.50 0.40 0.60 1.20 3.00 0.80 DSN 600~1200 0.30 0.80 0.70 1.10 0.80 1.50 4.00 1.50 CKD ANG. TEL± 1* 1* 1* 1*	IL ± M1 M2 S1 S2 P1			72±0.2	1
P P P P P P	JAT095-1	МЗ*Р0.5	72+0.2		₽
CHERN	NAME Back Plate		<u>72±0.2</u> <u>#0.2</u> <u>#0.2</u>		ω
REV. DESCRIPTION SIGNDATE DIM IN MM BOALE DWG SHEET 1 DF 1 DRAWING NO. JAT095-1			W		4

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	9 * ##	\$\$2889		32	103	-	17.10	8 [*]	**	理論
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6TO		7		NO.	SAMPLE		JIS 63141 SPU-3800			
		1.158	SPE	MN	社	244	41 53	1		8
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1989Y			SPECIFICATION	SM						
斯 斯			z			DESCRIPTION				
·资本考	561.30	8000 800 800 800 800 800 800 800 800 80		B	*	NOIL		×		
法证明本未所列复品,均依材料规格集选及试验,並符合规格之要孝。 WE HEARDY CERTIFY THAT MATERIAL DESCRIPTION HARSEN HAS BEEN MANUFACTURED AND TESTED WITH		6555 6556 65576 65			ALL ALL					99
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補料				돌	2	A LEW				
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HIN	+				Ni	MIC				AC 152
				- 100	3	LOC	3*	1 I I	R S	(ISL)
間法偏	THE RECEIPTION OF T				Cu Ni Cr Mo V	CHEMICAL COMPOSITION %	キ 泉 北 马 INVOICEINO.	文灵日 朔 SHEPPING DATS	法明書日期 INSUE DATE	SIT, YU LIAO BUALI, CHIMA DO BOOMA, KAGISETURAG ESEBEN, TAIWAN, B.O.C. TELAOTALI-TITI(12 LINNS) FAXAOT/611-0504
	H-C-				4	SITI	A G	Na Na	18 H	SIT, YU LLAD HOMAD, CHIMO TOU DESINGA KADIERUTAGI HSHEN, TAIWAN, R.O.C. TELAOTALI-TITI(12 LINNS) YAXAOT/611-06
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5	-		1	1	0				-	

LBOH



TEST REPORT

NUMBER : THJ0013374

APPLICANT: TONG YU INDUSTRY CO., LTD DATE : JAN 06, 2006 NO2-32 LANE 518 SEC 3 CHUNGSHAN RD CHANGHUA CITY CHANGHUA COUNTY 500 TAIWAN R.O.C. SAMPLE DESCRIPTION:

 ONE (1) GROUP OF SUBMITTED SAMPLES SAID TO BE :

 SAMPLE DESCRIPTION
 : JIS G3141 SERIES + ANODIZING BLACK

 DATE SAMPLE RECEIVED
 : DEC 30, 2005

 DATE TEST STARTED
 : DEC 30, 2005

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES TAIWAN LIMITED

JACOB LIN GENERAL MANAGER

> Intertek Testing Services Taiwan Ltd. 8/F., No. 423, Ruiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C. 全國公證檢驗股份有限公司 114 台北市內湖區瑞光路 423 號 8 樓 Tel: (+886-2) 6602-2888 2797-8885 Fax: (+886-2) 6602-2410

PAGE 1 OF 3



NUMBER : THJ0013374

TESTS CONDUCTED

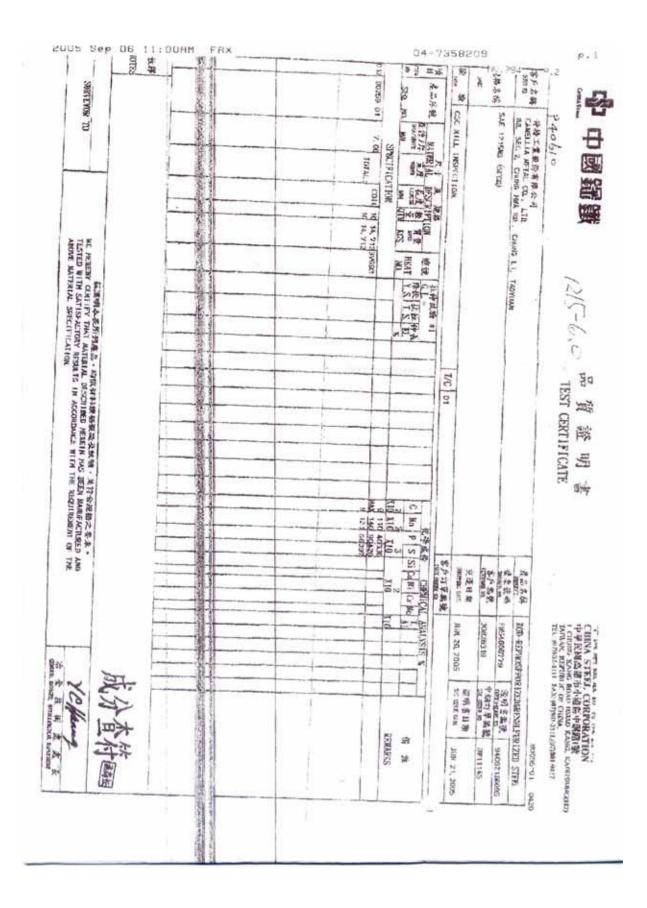
(A) TEST RESULT SUMMARY :

TESTING ITEM	RESULT (ppm)
	SUBMITTED SAMPLES
CADMIUM (Cd) CONTENT	ND
LEAD (Pb) CONTENT	26
MERCURY (Hg) CONTENT	ND
CHROMIUM VI (Cr ⁶⁺) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION ND = NOT DETECTED

(B) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
	WITH REFERENCE TO USEPA 3052, BY	
CADMIUM (Cd) CONTENT	MICROWAVE DIGESTION AND	2 ppm
	DETERMINED BY ICP-OES	
	WITH REFERENCE TO USEPA 3052, BY	
LEAD (Pb) CONTENT	MICROWAVE DIGESTION AND	2 ppm
	DETERMINED BY ICP-OES	
	WITH REFERENCE TO USEPA 3052, BY	
MERCURY (Hg) CONTENT	MICROWAVE DIGESTION AND	2 ppm
	DETERMINED BY ICP-OES	
	WITH REFERENCE TO USEPA 3060A &	
CHROMIUM VI (Cr ⁶⁺) CONTENT	7196A, BY ALKALINE DIGESTION AND	1 ppm
	DETERMINED BY UV-VIS	







藝祺有限公司 彰化縣埔鹽鄉彰水路一段107號 報告號碼 : CE/2005/95071

- 日期 : 2005/09/30 頁數
 - : 1 of 2

以下測試樣品乃供應廠商所提供及確認:

<u> 樣品名稱</u>	:	SAE1215 SERIES
收件日期	:	2005/09/23.
测試日期	:	2005/09/23 TO 2005/09/30

測試結果

測試部位 NO.1

: 鐵灰色金屬(請參照附件圖片)

测计石口。	留公	201-24-24-24	体测坏阻体	結果
測試項目:	單位	測試方法	偵測極限值	NO.1
六價鉻	ppm	依照US EPA 3060A方法, 用UV-VIS	2	N.D.
		做分析		
鎘	ppm	依照 EN1122 方法B:2001或其他酸	2	N.D.
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		
汞	ppm	依照 US EPA 3052 方法或其他酸	2	N.D.
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		
鉛	ppm	依照 US EPA 3050B 方法或其他酸	2	15.3
		消化方法,用感應藕合電漿原子發		
		射光譜儀(ICP-AES)做分析		

備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)

- (2) ppm = mg/kg / 百萬分之一
- (3) MDL= Method Detection Limit(偵測極限值)

Operation Manager igned for and on behalf of

SGS TAIWAN LTD.

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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		72±0.2	-
C Image: Margin and Margin			72±0,2
NAME Back-rubber MATERIAL #467MP+,≋ @PET FINISH CHIA CHERNE I 3	0.2+0.05		
REV. DESCRIPTION SIGNDATE DIM IN MM SCALE DWG SHEET 1 DF 1 DRAVING ND. JAT050-2 4	Γ	單面背膠不含離形紙	4

3M Laminating Adhesives Data Page

FOD # 0330

3M[™] 467MP Roll Laminating Adhesive 468MP Roll Laminating Adhesive

Product Construction

467MP	<u>Adhesive</u> 2.0 mils (50 microns) #200MP "Hi-Performance" Acrylic Adhesive	<u>Liner</u> 4.0 mils (100 microns) 58# Tan Polycoated Kraft Paper
468MP	5.0 mils (125 microns) #200MP "Hi-Performance" Acrylic Adhesive	4.0 mils (100 microns) 58# Tan Polycoated Kraft Paper

Features

- High performance solvent-free acrylic adhesive for exceptional environmental resistance and enhanced bond strength.
- Superior adhesive smoothness for improved clarity and reduced telegraphing through thin plastic facestocks.
- High cohesive strength for resistance to edge lifting and slippage.
- 2.0 mil 467MP is ideal for application to relatively smooth surfaces.
- 5.0 mil 468MP is ideal for application to a variety of rough or textured surfaces.
- Moisture stable liner resists curling or wrinkling in high humidity.
- 200MP Hi-Performance adhesive is initially repositionable, then builds to high ultimate bond strength.

Applications

- Long term bonding of nameplates and decorative trim to metal and high surface energy plastics in the automotive, appliance and electronic markets.
- Excellent adhesive for bonding metal and plastic nameplates in the aerospace, instrumentation and medical markets.
- Used for lamination to back printed polycarbonate or polyester graphic overlay materials in the automotive, electronics and membrane switch markets.
- Used for lamination of wood veneers and plastic laminates to cabinetry and furniture.
- Used in the assembly of membrane switches, including spacers for circuit separation graphic overlay for switch display and bonding the complete switch to the application surface.

Physical Properties

(Typical values – not for specification use)

ASTM D-3330 (modified) 90 degree peel, 12"/min. (305 mm/min) 2 mil aluminum

aluminum		20 Mi	n. Dwell
	Product	Oz./In.	<u>N/100 mm</u>
- Metal (Stainless Steel)	467MP	44	48
	468MP	59	64
- High Surface Energy Plastic	467MP	40	44
(ABS)	468MP	52	57

3M Test (90 degree peel, 12"/min. 305 mm/min.) 2 mil aluminum to

various surfaces		72 H	72 Hr. Dwell		Ultimate Bond	
	Product	Oz./In.	<u>N/100 mm</u>	Oz./In.	<u>N/100 mm</u>	
- Metal (Stainless Steel)	467MP	82	90	113	124	
	468MP	109	119	178	194	
- High Surface Energy Plastic	467MP	47	51	43	47	
(ABS)	468MP	61	67	58	63	
- Low Surface Energy Plastic	Not Recomm	nended				

(Polypropylene)

Environmental Performance

The properties defined are based on the attachment of impervious faceplate materials (such as aluminum) to an aluminum test surface.

Bond Build-up:	The bond strength of #200MP "Hi-Performance" Acrylic Adhesive increases as a function of time and temperature.
Humidity Resistance:	High humidity has a minimal effect on adhesive performance. Bond strengths are generally higher after exposure for 7 days at 90 degrees F (32 degrees C) and 90% relative humidity.
U.V. Resistance:	When properly applied, nameplates and decorative trim parts are not adversely affected by outdoor exposure.
Water Resistance:	Immersion in water has no appreciable effect on the bond strength. After 100 hours in room temperature water the bond actually shows an increase in strength.
Temperature Cycling Resistance:	Bond strength generally increases after cycling four times through: 4 hours at 158 degrees F (70 degrees C) 4 hours at -20 degrees F (-29 degrees C) 16 hours at room temperature
Chemical Resistance:	When properly applied, nameplate and decorative trim parts will hold securely after exposure to numerous chemicals including gasoline, oil, "Freon" TF, sodium chloride solution, mild acids and alkalis.
Low Service Temp:	-40 degrees F (-40 degrees C).
Heat Resistance:	The #200MP "Hi-Performance" adhesive is usable for short periods (minutes, hours) at temperatures up to 400 degrees F (204 degrees C) and for intermittent longer periods of time (days, weeks) up to 300 degrees F (149 degrees C).
Shelf Life:	Product retains its performance and properties for two years from date of manufacture if properly stored at room temperature conditions of 72 degrees F (22 degrees C) and 50% R.H. Storage in plastic bag is recommended.
Processing	
Die-cutting:	Excellent die-cuttability. For easier processing lubricate dies with Laminoleum vanishing oil available from Metal Lubricants (708-333-8900).
Roll Laminating:	Excellent processability. A combination of metal and rubber rollers with moderate pressure is recommended.

Special Considerations/Application Tips

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Consult solvent manufacturer's Material Safety Data Sheet for proper handling and storage instructions.

Bond strength can also be improved with firm application pressure and moderate heat causing the adhesive to develop intimate contact with the bonding surface.

Ideal adhesive application temperature range is 70 degrees F to 100 degrees F (21 degrees C to 38 degrees C). Application is not recommended if surface temperature is below 50 degrees F (10 degrees C) because the adhesive becomes too firm to adhere readily. Once properly applied, low temperature holding is satisfactory. For more specific information contact our Customer Service and Sales Support "hot line" at 1-800-223-7427.

2/15/96

Terms and Conditions of Sale for products sold by 3M Identification and Converter Systems Division can be found in the ICSD Price Book and in other appropriate schedules.

Technical Data: All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the products for the intended use.

Warranty and Limited Remedy: THE FOLLOWING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, A CUSTOM OR USAGE OF TRADE: 3M warrants its product will be free from all defects.

If a product is proved to be defective, then the exclusive remedy 3M's and seller's sole obligation shall be, at 3M's option, to replace the quantity of the product which is proved to be defective or to refund the purchase price.

Limitation of Liability: 3M and seller shall not be liable for direct, indirect, special, incidental or consequential damages based breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

The foregoing Warranty and Limited Remedy and Limitation of Liability may be changed only by a written agreement signed by authorized officers of 3M and seller.

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Identification and Converter Systems Division

3M Center, Building 220-7W-03 St. Paul, MN 55144-1000 USA 1 800 223 7427 1 800 258 7511 FAX e-mail idconvert@mmm.com 3M Canada Inc.

PO Box 5757 London, Ontario Canada N6A 4TI 1 800 265 1840 519 452 6090 FAX

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3M Mexico, S.A. de C.V.

Apartado Postal 14-139 Mexico, D.F. 07070 Mexico 52 5 728 2289 52 5 728 2299 FAX

3M Puerto Rico, Inc.

Puerto Rico Industrial Park PO Box 100 Carolina, PR 00986-0100 809 750 3000 809 750 3035 FAX



3M TAIWAN LTD. 66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

:

Report No. : CE/2005/94442A Date : 2005/09/28 Page : 1 of 18

The following merchandise was (were) submitted and identified by the client as :

<u>Type of Product</u> <u>Style/Item No</u>	:	3M TAPE PRODUCTS WITH 200MP ADHESIVE 467MP, 468MP, 7952MP, 7955MP, 9667MP, 9668MP, 9492MP, 9495MP, 7953MP, 7945MP, 7956MP, 7957MP, 7959MP, 7961MP
Sample Received	:	2004/12/31 &2005/03/24 & 2005/08/31 & 2005/09/21
Testing Date	:	2004/12/31 TO 2005/01/07 & 2005/03/24 TO
		2005/03/31 & 2005/08/31 TO 2005/09/08 &
		2005/09/21 TO 2005/09/28

<u>Test Result</u>

- Please see the next page -

* This report is combined with report of CE/2005/87179A *

Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



3M TAIWAN LTD. 66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

:

 Report No.
 : CE/2005/94442A

 Date
 : 2005/09/28

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<u>Test Result</u>

PART NAME NO.1

TRANSPARENT DOUBLE COATED TAPE (CE/2005/87179A & CE/2005/94442) (PLEASE REFER TO THE PHOTO ATTACHED)

				Result
Test Item (s):	Unit	Method	MDL	No.1
Asbestos				
Anthrophyllite(CAS NO.017068-78-9)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Crocodolite(CAS NO.012001- 28-4)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Amosite(CAS NO.012172-73- 5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Tremolite(CAS NO.014567- 73-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Chrysotile(CAS NO.012001- 29-5)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative
Actinolite(CAS NO.013768- 00-8)	**	As per NIOSH 9000 method. Analysis was performed by XRD.	-	Negative

				Result
Test Item (s):	Unit	Method	MDL	No.1
AZO		As per LMBG 8202-2		
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
BENZIDINE (CAS NO.92- 87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.



3M TAIWAN LTD. 66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

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				Result
Test Item (s):	Unit	Method	MDL	No.1
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CHLOROANILINE (CAS NO.106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-OXYDIANILINE (CAS NO.101-80-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-THIODIANILINE (CAS NO.139-65-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.



3M TAIWAN LTD. 66, 800 LANE, CHUNG-SHAN SOUTH ROAD, YANG-MEI, TAOYUAN, TAIWAN, R. O. C.

Report No. : CE/2005/94442A Date : 2005/09/28 Page : 4 of 18

				Result
Test Item (s):	Unit	Method	MDL	No.1
2,4-TOLUYLENDIAMINE (CAS NO.95-80-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-ANISIDINE (CAS NO.90- 04-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-AMINOAZOBENZENE (CAS NO.60-09-3)	ppm	Analysis was performed by GC/MS.	3	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
CFC's(Chlorofluorocarbons)		With reference to US EPA 8260.		
Group I				
Chlorofluorocarbon-11(CAS No:000075-69-4)	ppm	Analysis was performed by GC/MS.(CFC's(Chlorofluoro carbons))	1	N.D.
Chlorofluorocarbon-12(CAS No:000075-71-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-113(CAS No:000076-13-1)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-114(CAS No:000076-14-2)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-115(CAS No:000076-15-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Group III				
Chlorofluorocarbon-13(CAS No:000075-72-9)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-111(CAS No:000354-56-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
Chlorofluorocarbon-112(CAS No:000076-12-0)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-211(CAS No:135401-87-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-212(CAS No:076564-99-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-213(CAS No:060285-54-3)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-214(CAS No:002268-46-4)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-215(CAS No:000076-17-5)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-216(CAS No:001652-80-8)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Chlorofluorocarbon-217(CAS No:000422-86-6)	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Chlorinated Paraffin (C10~C13) (CAS NO:010871- 26-2)		Analysis was performed by GC/MS.	0.01	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Formaldehyde(CAS No:000050-00-0)		With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS	0.2	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
HCFC's(Hydrogenated chlorofluorocarbons)		With reference to US EPA 8260.		
Hydrochlorofluorocarbon- 21(CAS No.:000075-43-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 22(CAS No.:000075-45-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 31(CAS No.:000593-70-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 121(CAS No.:000354-14-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 122(CAS No.:000354-21-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 123(CAS No.:000306-83-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 124(CAS No.:002837-89-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 131(CAS No.:000359-28-4)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.



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Test Item (s):				Result
	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 131b(CAS No.:000471-43-2)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 133a(CAS No.:000075-88-7)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 141b(CAS No.:001717-00-6)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 221	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 222(CAS No.:000422-30-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 223	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 224	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 225ca(CAS No.:000422-56- 0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 225cb(CAS No.:000507-55- 1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.



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Test Item (s):				Result
	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 226(CAS No.:000431-87-8)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 231	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 232	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 233	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 234	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 235(CAS No.:013838-16-9)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 241	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 242	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 243(CAS No.:000338-75-0)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
Hydrochlorofluorocarbon- 244	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 251	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 252	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 253(CAS No.:000354-06-1)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 261(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 262(CAS No.:000420-97-3)	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.
Hydrochlorofluorocarbon- 271	ppm	Analysis was performed by GC/MS. [HCFC's (Hydrogenated chlorofluorocarbons)]	1	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Mirex(CAS NO:002385-85-5)		Analysis was performed by GC/MS.	4	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
Organic-tin coumpounds				
Triphenyl Tin(TPT)(CAS NO:000668-34-8)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.
Tributyl Tin(TBT)	ppm	With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD.	0.03	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
PCBs(Polychlorinated Biphenyls)(CAS NO:001336- 36-3)		With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Polychlorinated Naphthalene	ppm	With reference to USEPA	5	N.D.
		8081B. Analysis was		
		performed by GC/MS.		

				Result
Test Item (s):	Unit	Method	MDL	No.1
1,1,1-trichoroethane		With reference to US EPA 8260. Analysis was performed by GC/MS.	1	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
Carbon tetrachloride		With reference to US EPA 8260. Analysis was performed by GC/MS/HEADSPACE.	1	N.D.



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Test Item (s):				Result
	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.
Arsenic (As)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.
Beryllium (Be)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.
Nickel (Ni)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.
Antimony (Sb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.
Tellurium (Te)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
PCTs(Polychlorinated Terphenyls)		Analysis was performed by GC/ECD/MS.	0.5	N.D.



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Test Item (s):	Unit	Method	MDL	Result No.1
PVC free(CAS No:9002-86-2)	**	Analysis was performed by FTIR/ATR and Pyro- GC/MS.	-	Negative

				Result
Test Item (s):	Unit	Method	MDL	No.1
Halogen		As per EN14582 method B.		
Halogen-Chlorine (Cl)(CAS No:007782-50-5)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Fluorine (F)(CAS No:007782-41-4)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Bromine (Br)(CAS No:007726-95-6)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.
Halogen-Iodine (I)(CAS No:007553-56-2)	ppm	Filling the oxygen and absorb solution in the flask and take sample in the flask and burn it, the absorb solution was analyzed by IC method.	50	N.D.

				Result
Test Item (s):	Unit	Method	MDL	No.1
PCP(Pentachlorophenol) (CAS No:004901-51-3)	ppm	With reference to US EPA 8270D. Analysis was performed by GC/MS.	1	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%	1	0.0005	N.D.
Tribromobiphenyl	%	1	0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl	%	performed by HPLC/DAD, LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%	1	0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl ether	%	performed by HPLC/DAD, LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl ether	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl ether	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl ether	%	76/769/EEC)	0.0005	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.



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				Result
Test Item (s):	Unit	Method	MDL	No.1
Halon		With reference to US EPA 8260.		
Halon-1211	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-1301	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.
Halon-2402	ppm	Analysis was performed by GC/MS. [CFC's (Chlorofluorocarbons)]	1	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

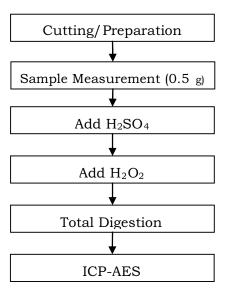
- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit
- (4) " " = No Regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) Negative = Undetectable / Positive = Detectable



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These samples were dissolved totally by pre-conditioning method according to below flow chart.

Flow Chart of Digestion for Plastic - EN1122 for Cd (without residue)

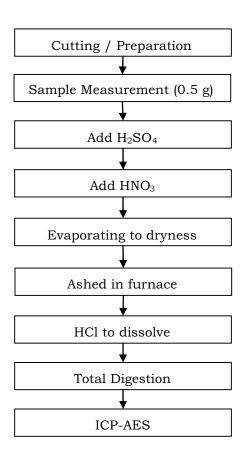




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These samples were dissolved totally by pre-conditioning method according to below flow chart.

Flow Chart of Digestion for Plastic -Wet Decomposition for Pb (without residue)



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		Intertex	Lablest
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			Report No. C507350
		TEST RE	Date : Apr. 29, 2005
			a
		e e	
	One (1) group of subr	on nitted samples said to be :	
	Sample Description	: PET Film TORAY	
	Item No.		0 DIO DEE DEO 1110 MOO 100 140
	nom no.		60, F10, F65, F60, H10, T99, X30, X43,
			0, E22, E60, E63, U34, U35, U426,
			E6SL, E6SV, PPS#3000, PPS#5000,
	Country of Original	PPS#3030, PPS#3A00, F	18#3030
	Date sample received	: Japan : Sep 22 2004	
	Date test started	: Sep. 22, 2004 : Sep. 23, 2004	

	The select for the		
	TEST CONDUCTED		
	As requested by the ap	oplicant, for details please re	fer to attached pages.
	*****************	***********	*************
1 10			
	Prepared and checked I		
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Intertek Labtest

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TEST CONDUCTED

	Result (ppm)
Testing item	Submitted samples
ntimony (Sb) content / 銻含量	185 (#3)
rsenic (As) content / 砷含量	ND (#1)
eryllium (Be) content / 鈹含量	ND (#1)
ickel (Ni) content / 錄含量	ND (#2)
admium (Cd) content / 鍋含量	ND (#1)
ead (Pb) content / 鉛含量	ND (#1)
Iercury (Hg) content / 汞含量	ND (#1)
ellurium (Te) content / 碲含量	ND (#2)
Chromium VI (Cr6+) content / 六價鉻含量	ND (#1)
BBs/PBDEs / 多溴聯苯/溴聯苯醚	ND (#1)
olychlorinated biphenyls (PCBs) / 多氨聯苯	ND (#1)
olychlorinated naphthalenes (PCNs) / 多氯化萘	ND (#1)
olychlorinated terphenyls (PCTs) / 多氨三苯	ND (#1)
Chlorinated paraffins / 氯化石蠟 (C10~C13)	ND (#1)
Airex (Perchlordecone) / 滅蟻靈	ND (#1)
'BBP-A-bis / 四溴雙酚-A-雙-(2,3-二溴丙醚)	ND (#1)
BBA / 四溴化二苯酚	ND (#1)
Formaldehyde / 甲醛	ND (#1)
Polyvinyl chloride (PVC) / 聚氯乙烯和聚氯乙烯混合物	ND (#1)
Drganic tin compounds (Tributyl tin compounds, riphenyl tin compounds) / 有機錫化合物 (三丁基錫 化合物, 三苯基錫化合物)	ND (#1)
化合物, 二本金额化合物, 二	ND (#1)
Aso dyes compounds / 偶氮化合物	ND (#1)
Polychlorinated phenols / 多氯酚	ND (#1)
CFCs/HCFCs/Halon / 臭氧危害物質	ND (#2)
1, 1, 1 – Trichloroethane / 1, 1, 1, - 三氯乙烷	ND (#3)
Carbon Tetrachloride / 四氯化碳	ND (#3)

Remarks : ppm = Parts per million

ND = Not detected #1 = The samples were tested on Sep. 30, 2004 report No. C414892 and the results were transferred to this report.

#2 = The samples were tested on Nov. 26, 2004 report No. C419530 and the results were transferred to this report.

#3 = The samples were tested on Apr. 25, 2005 report No. C506044 and the results were transferred to this report.

Intertek Testing Services Taiwan Ltd. 8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C. 全國公證檢驗股份有限公司 114 台北市内湖區處光路 423 號 8 棲 Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2410

Intertek Labtest

(B) Test method :

Testing item	Testing method	Reporting
Antimony (Sb) content 第含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Arsenic (As) content 神含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
世日里 Beryllium (Be) content 安全量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Nickel (Ni) content 泉合量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Cadmium (Cd) content 局含量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
ead (Pb) content 合全量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
Mercury (Hg) content 反合量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
ellurium (Te) content 合量	With reference to USEPA 3052, by microwave digestion and determined by ICP-OES	2 ppm
hromium VI (Cr6+) content 、價鉻含量	With reference to USEPA 3060A & 7196A, by alkaline digestion and determined by UV-Vis	1 ppm
BBs/PBDEs ·溴聯苯/溴聯苯醚	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm
olychlorinated biphenyls (PCBs) 均氯聯苯	With reference to USEPA 8082, by solvent extraction and determined by GC-ECD and GC-MSD	1 ppm
olychlorinated naphthalenes (PCNs) 场象化萘		10 ppm
olychlorinated terphenyls (PCTs)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm
hlorinated paraffins (C10~C13) 化石蠟	With reference to USEPA 3540C, by solvent extraction and determined by GC-ECD and GC-MSD	10 ppm
lirex (Perchlordecone)	With reference to USEPA 3540C, by solvent extraction and determined by GC-MSD	10 ppm
BBP-A-bis 浪雙酚-A-雙-(2,3-二溴丙醚)	With reference to USEPA 3540C, by solvent extraction and determined by HPLC-DAD	20 ppm
BBA 国溴化二苯酚	As per DIN53313, by solvent extraction and determined by GC-ECD	20 ppm
ormaldehyde 醛	As per applicant's request with reference to DIN 53315 and determined by UV-Vis	5 ppm
olyvinyl chloride (PVC) 《氨乙烯和聚氯乙烯混合物	Beilstein's test (flame test) and FT-IR analysis	NA
inganic tin compounds (Tributyl tin ompounds, triphenyl tin ompounds)有機錫化合物 (三丁基錫化 行物, 三苯基錫化合物)	With reference to ISO 17353, by solvent extraction and determined by GC-MSD	1 ppm
sbestos ī綿	FT-IR analysis	NA
zo dyes compounds 局质化合物	As per ISO/TS 17234:2003, EN 14362-1:2003, EN 14362-2:2003, determined by GC-MSD	5 ppm
olychlorinated phenols 经氨酚	As per DIN53313, by solvent extraction and determined by GC-ECD	1 ppm
FCs/HCFCs/Halon L氧危害物質	By Tedlar bag collection and determined by GC-MSD	1 ppm
, 1, 1 – Trichloroethane , 1, 1, - 三氯乙烷	With reference to USEPA 5035 & 8021B, by purge – and – trap extraction and determined by GC-PID/ELCD	0.016 ppm
arbon Tetrachloride 四氯化碳	With reference to USEPA 5035 & 8021B, by purge – and – trap extraction and determined by GC-PID/ELCD	0.016 ppm

Remarks : NA = Not applicable Reporting limit = Quantitation limit of analyte in sample solution — END —

> Intertek Testing Services Taiwan Ltd. 8F., No. 423, Ruiguang Rd., Neihu District, Taipei 114, Taiwan, R.O.C. 全國公證檢驗股份有限公司 114 台北市內潮區瑞先路 423 號 8 樓 Tel: (+886-2) 6602-2888 · 2797-8885 Fax: (+886-2) 6602-2410

Page : 3 of 3 Report No. C507350 Date : Apr. 29, 2005

			Ð		0		Ψ	⊳
1								
							1.5g	
	CKD APPD	DSN	DRN	MODEL			1.5g±0.2g軟包裝,請	
р П	Alex 20	Angel 11,	Fanny 20	JAP			請參照限度樣品	n
	11/12 2003 2003 2003	12 FINISH	MATERIAL			(20)		
ω	CHERNE INDUSTRY CO.,LTD			NAME Thermal grease	註:1. 導熱膏軟包封口不可破裂, 致導熱膏外漏.		(58.4)	
	ē L	†\ 	REV, DES		包封口不可破			
4	JAP001A	DIM IN mm S	DESCRIPTION SIGNDATE		烈,致 導熱賣			4
	01A	DO NOT SCALE DWG	IGNDATED		今 編. C		Ψ	⊳

DOW CORNING TORAY SILICONE

HEAT-TRANSFER COMPOUND

SC102 heat-transfer compound is a grease like silicone material heavily filled with heat-conductive metal oxide.

SC102 heat-transfer compound is an improved product that can be used in touch with silicone JCR, where most of silicone heat-transfer compounds cause swelling of JCR. SC102 also shows excellent heat conductivity as well very little oil bleed. SC102 has rather high consistency and it is easy to handle and can be used in many appliances.

Properties of SC102

Properties	Unit	SC102
Consistency, penetration un-worked		300
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity		2.45
Thermal Conductivity	Cal / cm • sec. C	0.0019
Arc Resistance	sec.	123
Dielectric Constant 60 Hz		4.6
1000 Hz		4.4
Dissipation Factor 60 HZ		0.034
1000 HZ		0.024
Volume Resistivity	ohm • cm	4.8 x 10 ¹⁴
Dielectric Strength	kV / 2.5mm	22

Dow Corning Toray Silicone Co., Ltd.

Properties of SC102 in comparison with SH340

Properties	SC102	SH340 ^a)	
Swelling of Silicone JCR $^{\flat}$)	0.9%	3.0%	
Volume increase	0.9%	5.0%	
Oil bleed on alminum plate	None	observed	
120°C / 24hrs	None		
Appearance after heating	No obongo	No obongo	
150°C / 24hrs	No change	No change	

- a) Conventional silicone heat-transfer compound
- b) Cured silicone JCR (SH6101) was immersed in heat-transfer compound at 120°C for 120hrs.

Dow Corning Toray Silicone Co., Ltd.

AIG Bldg. 1-3, Marunouchi 1-chome, chiyoda-ku Tokyo 100-0005, Japan TEL: 03-3287 8300 **IMPORTANT NOTICE** :Dow Corning Toray Silicone neither represents nor tests this material for medical device applications or for pharmaceutical end-use. **NOT FOR HUMAN INJECTION !** This product is made to industrial grade standards. It is not intended for nor should it be used in medical device applications and pharmaceutical end-use.





SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C. Report No. : CE/2005/81840 Date : 2005/08/15 Page : 1 of 4

The following merchandise was (were) submitted and identified by the client as :

<u>Type of Product</u>	:	DOW CORNING TORAY SC102 HEAT SINK COMPOUND
Sample Received	:	2005/08/09
<u>Testing Date</u>	:	2005/08/09 TO 2005/08/15

Test Result

: - Please see the next page -

Operation Manager Signed for and on behalf of SGS TAIWAN LTD.



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.

:

 Report No.
 : CE/2005/81840

 Date
 : 2005/08/15

 Page
 : 2 of 4

Test Result

PART NAME NO.1

WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

Tract Itam (a):	Unit Method		MDL	Result
Test Item (s):	UIII	Method	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%	1	0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD,	0.0005	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total	%	1	-	N.D.
PBBs(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.
Nonabromobiphenyl ether	%	(prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl ether	%	(ROHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Total	%	,,	-	N.D.
PBBEs(PBDEs)(Polybromin				
ated biphenyl ethers)/Sum				
of above				



SIL-MORE INDUSTRIAL LTD.

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.

 Report No.
 : CE/2005/81840

 Date
 : 2005/08/15

 Page
 : 3 of 4

	TTest4		MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

(4) " - " = No Regulation



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.

:

:

Report No.: CE/2005/72052Date: 2005/07/18Page: 1 of 4

The following merchandise was (were) submitted and identified by the client as :

<u>Type of Product</u>	
Sample Received	
Testing Date	

PACKING MEMBRANE

2005/07/11

: 2005/07/11 TO 2005/07/18

<u>Test Result</u>

: - Please see the next page -

Operation Manager

Signed for and on behalf of SGS TAIWAN LTD.



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.

Report No.	: CE/2005/72052
Date	: 2005/07/18
Page	: 2 of 4

Test Result

PART NAME NO.1

: MIXED TRANSPARENT PLASTIC MEMBRANE &TRANSPARENT PLASTIC MEMB (PLEASE REFER TO THE PHOTO ATTACHED)

Tost Itom (a)	TInit	Unit Method		Result
Test Item (s):	Unit	Μετποα	MDL	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%	With reference to	0.0005	N.D.
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD,	0.0005	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl	%	76/769/EEC)	0.0005	N.D.
Total PBBs	%		-	N.D.
(Polybrominated				
biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was performed by HPLC/DAD,	0.0005	N.D.
Heptabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.
Octabromobiphenyl ether	%	(prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.
Decabromobiphenyl ether	%	76/769/EEC)	0.0005	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.



SIL-MORE INDUSTRIAL LTD.

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.

 Report No.
 : CE/2005/72052

 Date
 : 2005/07/18

 Page
 : 3 of 4

Tost Itom (s):	Unit	Method	MDL	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit
- (4) " " = No Regulation



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C.
 Report No.
 : CE/2005/72052

 Date
 : 2005/07/18

 Page
 : 4 of 4



D	Ω	α	⊳
F			
TOL MIDEL RANGE URS 0~6 0.20 6~30 0.30 30~120 0.45 120~300 0.80 300~600 1.20 600~1200 1.50 ANG. TOL± 1° APPD		8	 '
Fanny 08/10 2004 MATERIAL Fanny 08/10 2004 MATERIAL Robert 08/10 2004 FINISH John 08/10 2004 FINISH Auric 08/10 2004 FINISH			
A CHERNE INDUSTRY CD,,LTD			
REV. DESCRIPTION SIGNDATE			<u>_</u>
	Ω	α	⊳



NAN YA PLASTICS CORPORATION NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTY, TAIWAN Report No. : CY/2006/50558 Date : 2006/05/22 Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product	: AMORPHOUS POLYESTER SHEET	
Style/Item No	: NAN YA A-PET SHEET	
Manufacturer/Vendor	: HSIN-KANG 2ND PLANT PLASTICS 2ND I	VIC
Sample Received	: 2006/05/12	
Testing Date	: 2006/05/12 TO 2006/05/22	

Test Result

PART NAME NO.1

: TRANSPARENT PLASTIC SHEET

Trank Idams (a)	Theit	Mathad	MDL	Result	Case
Test Item (s):	UIII	Jnit Method		No.1	Spec.
EN 71 PART 3 Heavy metal content		As per EN 71 PART 3 : 1994 (A1 : 2000, AC:2000 and AC:2002) (EN 71 & BS 5665 are identical)			
Soluble Lead (Pb)	ppm	ICP-AES	5	< 5.0	90
Soluble Antimony (Sb)	ppm	ICP-AES	5	< 5.0	60
Soluble Arsenic (As)	ppm	ICP-AES	2.5	< 2.5	25
Soluble Barium (Ba)	ppm	ICP-AES	10	< 10.0	1000
Soluble Cadmium (Cd)	ppm	ICP-AES	5	< 5.0	75
Soluble Chromium (Cr)	ppm	ICP-AES	5	< 5.0	60
Soluble Mercury (Hg)	ppm	ICP-AES	5	< 5.0	60
Soluble Selenium (Se)	ppm	ICP-AES	5	< 5.0	500

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Daniel Yeh, M.R. / Operation Manager Signed for and on behalf of SGS TAIWAN LTD.

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SGS TAIWAN LIMITED NO. 136-1, Wu Kung Road, Wuku Industrial Zone, Taipei county, Taiwan. 1(886-2) 22993939 ((886-2) 2299-3237 www.sgs.com.tw



NAN YA PLASTICS CORPORATION NO. 2, CHUNGYANG INDUSTRIAL PARK, HSINKANG VILLAGE, CHIAYI COUNTY, TAIWAN Report No. : CY/2006/50558 Date : 2006/05/22 Page : 2 of 2



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U U	Ω	₩	▷
MIDDEL PBJA88 NAME DRN Joyce 11/17 2004 MATERIAL DRN John 11/17 2004 MATERIAL DSN John 11/17 2004 FINISH CKD Angel 11/17 2004 CHIA CHERNE INDUSTRY CI,LTD APPD Kavin 11/17 2004 CHIA CHERNE INDUSTRY CI,LTD	Bost to a	92±2	
TD DESCRIPTION SIGNDATE DIM IN MM SCALE DWG SHEET 1 DF 1 DRAWING ND. PBJA88 4		₩	4



CHIU HO PAPER CO., LTD.	Report No.	: CE/2004/C1590A
196, LANE 211, TUNG YUAN ROAD, HO MEI TOWN,	Date	: 2004/12/16
CHANGHUA COUNTY, TAIWAN 508	Page	: 1 of 2

The following merchandise was (were) submitted and identified by the client as :

:	KRAFT BOX
:	2004/12/09
:	2004/12/09 TO 2004/12/16
	:

Test Result

PART NAME NO.1 : BROWN CARTON (PLEASE REFER TO THE PHOTO ATTACHED)

							PASS
					Result		
Test Item (s):	Unit	Method	MDL	No.1			Spec.
94/62/EEC							
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			-
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			-
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			-
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			-
Total Lead+Cadmium+Mercury +Chromium VI		Total Lead+Cadmium+Mercury+C hromium VI (94/62/EEC)	-	N.D.			100

- NOTE: (1) N.D. = Not detected (<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) " " = No Regulation

Yeh, M.R. YOperation Manager

Signed for and on behalf of SGS TAIWAN LTD.

FROM : HEN TZANG	042237532840.	: 02 23060405	APR- 2	24 2006 05:02PM P1
APR-24-2006 12:01			29991130	P.01
	 			



AVATACK CO., LTD. NO. 21, SANMIN RD., FONGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303, TAIWAN (R. O. C.)

1

 Report No.
 : CE/2006/10501

 Date
 : 2006/01/10

 Page
 : 1 of 5

WETTERSTORESTEN W

The following merchandise was (were) submitted and identified by the client as :

Type of Product:PAFER LABELStyle/Item No:CLOH, CLOHL, CL9A, CL9B, CLA5, CLA8, CLW3, CLW3A,
CLW3L, CLW3XSample Received:2006/01/03Testing Date:2006/01/03 TO 2006/01/10

Conclusion

The test results of Pb, Cd, Hg, Cr+6, PBB and PBDE for the submitted sample comply with the requirements of RoHS (2002/95/EC).

KQ

Haton Man

Signed for and on behalf of SGB TAWAN LTD.

Der septers of win EDE file is is is onestanden him the ber beining information in foretange and. This This This Barrar And Fortaringed worden in full

FROM : HEN TZANG	042237532840. : 02 23060405	APR. 24 2006 05:03F
APR-24-2006 12:02 PM	CA. 2X 02	29991130 P.O
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AVATACK CO., LTD. NO. 21, SANMIN RD., FONGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303, TAIWAN (R. O. C.)

1

Report No. : CE/2006/10501 Date : 2006/01/10 Page : 2 of 5

Test Result

PART NAME NO. 1

YELLOW PAPER LABEL

	1	· · · · · · · · · · · · · · · · · · ·	T		
Test Item (s):	Unit	Method	MDL	Result	ROHS
Monobromobiphenyl	%		0,0005	No.1	ROAS
Dibromobiphenyl	%		0.0005	N.D.	+
Tribromobiphenyl	%	-	0.0005	N.D.	
Tetrabromobiphenyl	%	With reference to	0.0005	the second se	
Pentabromobiphenyl	%	USEPA3540C or	0.0005	N.D.	
Hexabromobiphenyl	. %	USEPA3550C. Analysis was	0.0005		
Heptabromobiphenyl	%	performed by HPLC/DAD,	0.0005	N.D.	-
Octabromobiphenyl	. %	LC/MS or GC/MS.	0.0005	N.D.	-
Nonabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.	
Decabromobiphenyl	%	(RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	in
Total PBBa	10	- CITOSTELCT	0.0005	N.D.	-
Polybrominated	10			N.D.	0.1
biphenyla/Sum of above	1 .				
Monobromobiphenyl ether	%		0 0005	N.D.	
Dibromobiphenyl ether	%		0.0005	N.D.	
Tribromobiphenyl ether	%		0.0005	N.D.	
Tetrabromobiphenyl ether	%	1	0.0005	N.D.	
Pentabromobiphenyl ether	%		0.0005	N.D.	
Hexabromobiphenyl ether	%	With reference to	0.0005	N.D.	
Heptabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.	
Octabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.	<u> </u>
Nonabromobiphenyl ether	%	performed by HPLC/DAD, LC/MS or GC/MS.	0.0005	N.D.	
Decabromobiphenyl ether	%	(prohibited by 2002/93/EC	0.0003	N.D.	· ·
fotal	%	(RoHS), 83/264/EEC, and	0.0003	N.D.	-
BBEs(PBDEs) Polybromin		76/769/EEC		м.ф.	
ted biphonyl ethersi/Sum					
otal of Mono to Nona- rominated biphenyl ther. (Note 5)	%		-	N.D.	0.1

The content of this PDF. We is the state of the state of

	0422375328 NO. : 02 23060405	APR. 24 2006 05:04PM P3
2-24-2006 12:03 PM UA. 2X		29991130 P.03
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SGS

Test Report

AVATACK CO., LTD.

NO. 21, SANMIN RD., FONGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303, TAIWAN (R. O. C.) Report No. : CE/2006/10501 Date : 2006/01/10 Page : 3 of 5

Tont Item (s):	Unit	t Method N		Result	PASS Limit of
			MDL	No.1	ROHS
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digention.	2	N.D.	100
Mercury (Hg)	ppm	ICF-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	bbm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

- NOTE: (1) N.D. = Not detected (<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Deteotion Limit

of the DOT synth in our colored with the activation is really from the state of the

- (4) " " Not Regulation
- (5) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

3 1.255.27

(6) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.

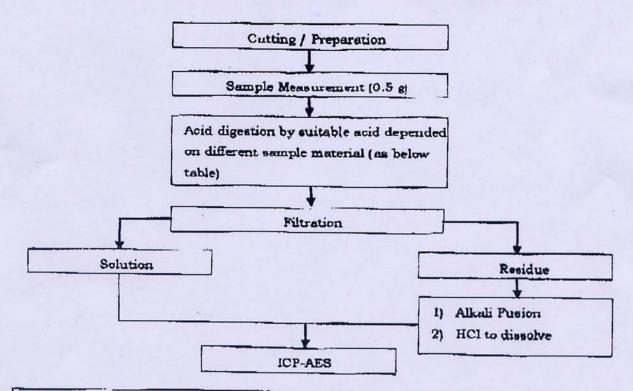
FROM : HEN TZANG	0422375328 NO. : 02 23060405 APR.	24 2006 05:04PM P4
APR-24-2006 12:03 PM	0A, 2X 02 29991130	P.04
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AVATACK CO., LTD.

NO. 21, SANMIN RD., FONGSHAN VILLAGE, HUKOU TOWNSHIP, HSINCHU COUNTY 303, TAIWAN (R. O. C.) Report No. : CE/2006/10501 Date : 2006/01/10 Page : 4 of 5

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Daniel Yeh

Method 1: Flow Chart of Digestion for heavy metal analysis



Steel, copper, aluminum, solder	Agua regia, HNO3, HCI, HF, H2O2
Glass	HNO3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO3
Plastic	H2SO4, H2O2, HNO3, HC1
Others	Any acid to total digestion

SONY

TECHNICAL TRANSFER REPORT TRANSFER

SONY THERMAL

			High density printing	Measure method	
	Total thickness (μ m)		8.6		
Substrate thickness (µm) Ribbon property Ink thickness (µm))	4.8	Micrometer scale	
			3.5		
	Ink melting point (°C)		80	DSC method	
	Transmission density		≧1.4	Macbeth scale	
	Required pointing energy	(mj/mm²)	14	Using standard printing of which printing speed at 3"/sec	
	Image density		1.8	Label:FASSON 1C *1 Macbeth scale	
	Element ratio (%) #2		100	#2 Element rate = In spec element Element X100	
Printing property		NA55 (210min.)	0		
	Coated label stock	FASSON 1C (350min.)	0	Quality of transferability of 1dot thin bars,	
		SK coat (720min.)	0	letters and solidness(Beck smoothness)	
	PET label stock	FLEXCON T/C387	Q		
	Friction resistance	Cotton contamination density	0.05	200g /2cm ² load×100reciprocation	
	Heat-pressing resistance	Cotton contamination density	0.15	80°C×2,000g/cm²load×10sec	
	Heat resistance	80°C×3days	0		
Durability⊯₃	Pen scanner	50times	O		
	Water resistance	Dipping for 1HR	Q	Scanning by pen scanner	
Ethanor resistance Cold resistance	Ethanor resistance	Dipping for 10min.	Ó	#3 label:using FASSON 1C	
	-20°C×12HR 50°C×12HR 3cycles	O			
Others	Usage condition		5~35°C very good results	*	
Julers	Storage condition		5~35°C,20~85%RH one year		

Specifications may be changed without notice.

Sony Chemicals Corporation

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Sony Chemicals Singapore PTE LTD.

Block 1022 Tai seng Avenue, Tai Seng Industrial Estate # 02-3530 Singapore 534415 Tel:382-1500 Fax:382-1750

IONY IERMAL NSFER RIBBON PRODUCT TR4085

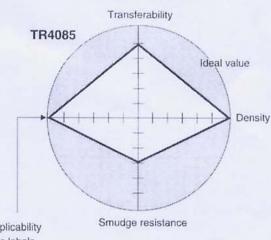
Use of bar code systems is getting wider year by year in areas of factory automation, physical distribution and retail market.Demand is increasing for thermal transfer ribbons to produce high quality smudge/scratch resistant images on various material of labels and tags. Such demand has encouraged Sony to produce TR4085, a truly unique ribbon that offers remarkable "void free" bar code /human readable imaging and smudge/scratch resistance on polyethylene wrapping bags.Sony TR4085 is applicable for both paper and plastic label in satisfying bar code requirements.

Specific Features of TR4085

SONY

- Ideal for polyethylene wrapping bags and normal paper labels. High density and clear printing is possible.
- Particularly high density printing combined with smudge/scratch durability.
- Special printing condition is not necessary on the part of printers. The ribbon can be mounted on any existing major thermal transfer bar code printers.
- "Void free"bar code imaging.

Print sample



Applicability to labels

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Features'Chart