

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



	APPROV	AL SIGN	NATURES	
審 核 APPROVER	確認 CHECKER	主 辨 HANDLER	結論 CONCLUSION	印 章 SIGNATURE
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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

JYCC501A



Application	INTEL LGA -775
Specification	
Weight	~ 332g
Dimension	115L×115W×38.5H (mm)
Heat sink	
Model	JYH501A
Material	AL6063 & Cu core
Fan	
Rated Voltage	DC12V
Rated Current	0.11A
Rated Speed	2400RPM ±10%



SPECIFICATION FOR APPROVAL

CUSTOMER	:	
MOTOR TYPE	:	MAGLev [®] Fan S. Blower by SUNON
DESCRIPTION	:	MagLev Motor Fan
DIMENSIONS	:	80X80X15 mm
MODEL	:	KDE1208PHV3
P/N	:	13.MS.B1588.AF.GN
SUNON SPEC. NO.	:	D08024470G-00
APPROVAL NO.	:	
APPROVED BY	:	
(AUTHORIZED)		



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DC	BRUSHL	ESS FAN	
MOD	EL : KDE	1208PHV3	
P/N	: 13.M	S.B1588.AF.C	GN
CHARACTERISTICS			
1. Motor Design	: DC brusl	nless 4 pole motor	design.
2. Insulation Resistance	: More tha	n 10M ohm betwe	een internal stator and
	lead wire	(+) measured at D	C 500V.
3. Dielectric Strength	: Applied	AC 500V for one r	ninute or AC 600V for
	2 seconds	s between housing	and lead wire(+)
4. Noise Level	: Measure	d in a semi-anecho	oic chamber
	with bac	kground noise leve	el below 15
	dB(A). T	he fan is running	in free air with the
	micropho	one at a distance o	f one meter
	from the	fan intake.	
5. Input Power, Current & Speed	: Measure	d after continuous	s 10 minute
	operation	n at rated voltage	in clean air, and
	at ambie	nt temperature of	25 degrees C.
6. Tolerance	: ±15% on	rated power and	current.
7. Air Performance	: Measure	d by a double cha	mber. The values
	are recor	ded when the fan	speed has stabilized
	at rated	voltage.	
建準電機工業股份有限公司	SPEC.NO	D08024470G-00	REVISION DATE
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SPECIFICATIONS

MODEL : KDE1208PHV3 P/N : 13.MS.B1588.AF.G	SN		
1-1. Rated Voltage	: 12 VDC	х 1	
1-2. Operating Voltage Range	: 5~13.8	VDC	
1-3. Starting Voltage	: 5 VDC ((25 deg. C POW	/ER ON/OFF)
1-4. Rated Speed	: 2400 RH	PM ± 10%	
1-5. Air Delivery	: 32 CFM	[·	
1-6. Static Pressure	: 0.09 Inc	h-H2O	
1-7. Rated Current	: 0.11 AN	1P	
1-8. Rated Power	: 1.3 WA	TTS	
1-9. Noise Level	: 28 dB(A	r)	
1-10. Direction of Rotation	: Counter	-clockwise viewo	ed from front of fan blade
1-11. Operating Temperature	: -10 to +	70 deg. C	
1-12. Storage Temperature	: -40 to +	70 deg. C	
1-13. Bearing System	: Vapo be	earing system	
1-14. Weight	: 68 g		
1-15. Safety	: UL/CUI	R/TUV/CE Ap	provals
1-16. Vibration	: Vibratio frequen 3 direct for a tot	on of acceleration cy 5~50~5Hz is ions(X,Y,Z), in tal vibration tin	on 1.5G and applied in all cycles of 1 minute each, ne of 30 minutes.
1-17. Locked Rotor Protection	: Automa Note: In a force whi temperatu the electri automatic released.	tic Restart Cap situation where th le the electricity is are will be prevente ical power to the m cally restart when th	bability e fan is locked by an external on, an increase in coil d by temporarily turning off otor. The fan will ne locked rotor condition is
建準電機工業股份有限公司	SPEC.NO	D08024470G-00	REVISION DATE
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MODEL : KDE1208PHV3 P/N : 13.MS.B1588.AF.GN

PERFORMANCE CUVERS

STATIC PRESSURE



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MATERIAL : 2-1. Frame Thermoplastic PBT of UL 94V-0 2-2. Impeller Thermoplastic PBT of UL 94V-0 : 2-3. Bobbin Thermoplastic PBT of UL 94V-0 : 2-4. Lead Wire UL1007,24 awg,+RED,-BLACK : UL1007,24 awg,YELLOW:3rd Wire DIMENSIONS ROTATION PBT S AIR FLOW 8-ø4.3±0.3 Œ Ð 80.0±0.5 71.5±0.3 SUNON UL1007 #24AWG +:RED(紅),-:BLACK(黑) YELLOW(黄):3rd_Wire Œ BLACK(黑) 15+0.5 510 YELLOW(黄) RED(紅) 200+/-10 CONN: 2510-3P 1. Air Flow Direction: Toward label side. 2. Best Mounting Direction: Any orientation. UNITS:mm 建準電機工業股份有限公司 SPEC.NO D08024470G-00 REVISION DATE SUNONWEALTH ELECTRIC ISSUE DATE 01.07.2006 EDITION MACHINE INDUSTRY CO., LTD. PAGE 5 OF 11 U9

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FAN 3rd WIRE SIGNAL

Fan with driver IC:

R Type (Rotation Detector)



 3^{rd} wire signal : Run :V_L Locked :V_H

 t_1 :Locked protection by cut-off run current (I_R) t_2 :Auto-restart by sending starting current (Is)



 $\mathbf{I}_{\mathbf{s}}$

1311311313

 I_R



t₃:F Type has open collector circuit designed for rpm measurement.



Notes

- I. Safety
 - **1.SUNON** will not guarantee this product if your application exceeds the limitations outlined in this specification.
 - 2. There is no thermo-protector installed in this product, such as thermo-fuse, or current-fuse or thermo-protector. There may be smoking, ignition, or electric shock by insulation degradation in cases of motor lock, motor lead short circuit, overload, over voltage, and/or other failure. Please add the protection circuit to your product.
 - 3. There is no reverse-connection prevention diode of VDC (+) and GND (-) installed in this product. Therefore, if VDC(+) and GND(-) are reverse connected, it may cause smoking, ignition, and/or destruction, although these conditions may not manifest immediately. We recommend that a protection device be installed on your product when there is a possibility of reverse-connection.
 - 4. Please verify that this product is being installed and used in compliance with all safety standards. Please inform SUNON of any safety concerns prior to releasing your product to production.
 - 5.Please handle and install this product carefully. Hitting or dropping this product may cause damage.
 - 6.Please do not damage this product including coil and lead wires while installing or wiring. There may be smoking or fire.
 - 7.Sunon doesn't suggest customers to use power or ground PWM to control the fan speed, if necessary, we need to do the special design for the application.

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Notes

- ${\rm I\hspace{-1.5mm}I}$. Specification modification
 - **1.SUNON** offers engineering assistance on fan installation and cooling system design.
 - 2.Any change to the parameters specified in this document will be determined by mutual agreement between both parties. Parameters which are not specified in this specification will be identical to the final sample which has been approved by your company.
 - 3.Product will be shipped in accordance with this specification unless Sunon has been previously notified of parameters requiring exception.
 - 4.Parameters modified by mutual consent will be incorporated in this specification.
 - 5.Please notify SUNON in advance of any modification to your product or new application for this fan which may require a review of this specification.

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Notes

III. Other

- 1. When building your device, please examine thoroughly any variation of EMC, temperature rise, life data, quality, etc. of this product by shock/drop/vibration testing, etc. If there are any problems or accidents in connection with this product, it should be mutually discussed and examined.
- 2.Fan holders or bearings may be damaged if touched with fingers or other objects. Additionally, static electricity (ESD) may damage the internal circuits. Please handle this product carefully.
- 3.Please avoid operating SUNON's product in poisonous material (organic silicon, cyanogens, formalin, phenol, etc.) or corrosive gas environments (H2S, SO2, NO2, Cl2, etc).
- 4.SUNON does not warrant performance safety against accidents caused by dust, water, droplets, dew, bugs, etc.
- 5.Please advise us in advance if you require documents for export.
- 6.Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.
- 7.Safety is a top priority. Please furnish guard accessories to prevent injury to personnel.
- 8.Unless otherwise noted, all tests are conducted at 25°C ambient temperature and 65% relative humidity.
- 9.Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, SUNON recommends functional testing before using.
- 10.SUNON reserves the right to use components with equivalent specifications from multiple sources.

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Declaration of RoHS

Control declaration of environment- related substances/ materials

1.In accordance with the Restriction of Hazardous Substances (RoHS) Directive, Sunon product with P/N: GN models have complied with law and discipline not to employ the forbidden substances, and restrict the allowable concentration of some limited substances deliberately in our components.

No		Substance	Criteria
1	Halogens & its compounds (Subs	tances depleting the ozone layer)	Forbidden
2	Chlorinated Organic Solvent		Forbidden
		Plastic (Frame, Impeller, wire harness, etc.)	<100ppm
		Solder	<1000ppm
3	Lead and its compounds	Iron Alloy	<3500ppm
		Aluminium Alloy	<4000ppm
		Copper Alloy	<4wt%
		Solder	<20ppm
4	Cadmium and its compounds	Parts composed of metals containing zinc (e.g. brass, zinc for die casting)	<100ppm
		Plastic	<5ppm
5	PBB and PBDE Category		Forbidden
6	PCB and PCT Category		Forbidden
7	СР		Forbidden
8	Mirex		Forbidden
9	PCN category		Forbidden
10	Hexavalent Chromium Compour	nds	<100ppm
11	Mercury and its compounds		Forbidden
12	Asbestos		Forbidden
13	Organic Tin Compounds		Forbidden
14	Azo Compounds	-	Forbidden

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	1			5.9±0.2											1
	2	<u>\$5.2+0</u> <u>\$4+0.1</u> <u>\$4+0.1</u> <u>\$3*0.5P</u>								5.3 ^{+0.1}	<u>5</u>				
	3	線徑01.2±0.1		22.5±0.35			50 0+ 2 0							0	
2		JAS0930		NAMESp	oring	Screw	۲ Kit	RANGE 0~6 C 6~30 C 30~120 C 300~600 C 600~1200 C ANG. TOL±	M1 0.05 0 0.10 0 0.15 0 0.20 0 0.30 0	M2 S1 S 0.10 0.15 0.3 0.20 0.15 0.3 0.20 0.25 0.3 0.30 0.25 0.4 0.50 0.40 0.3 0.80 0.70 1.3 0.80 0.70 1.3	2 P1 20 0.05 25 0.10 30 0.20 45 0.40 50 0.60 10 0.80 1*	P2 0.10 0.15 0.40 0.80 1.20 1.50	С 0.50 1.00 2.00 3.00 4.00	URS 0.20 0.25 0.45 0.80 1.20 1.50	4
	DSN CKD APPD	2005 Joyce 08/03 2005 John 08/03 2005 Kevin 08/03 2005	FINISH	CHERNE	INDUS	TRY CO.,I	LTD			DIM IN SHEET	mm 1 SOS	DD N SCAL		/G [

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S AND SPECIFICATI					120 TH	87108 17 MT	····································	-CAPROV STEET	R.國身共市小洋回中 M.I.INDUSTRIAL DIS LANG, XAOHSIUNG (8 M.REPUBLIC OF CHI ニ7110年、71283、7141 07)802-1111 FAX
Mrs.	2002 (1 :000		REMARKS	弟 	1 175	本指統 1950022	新潟 B702251	B0170-027	编码】就 1121CT P. 0. BOX 112) 5 XAOHSIUNG 5 XAOHSIUNG

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QUALITY CERTIFICATION 品質證明書

2003/3/28 Wrapping 播挽测试 0.03MAX GOOD 0.008 A'N S Q.A. Department EL IN 品保護 Twis: No.(turns) 油林教 0.03MAX SOMIN 0.018 \$2 ۵. Date 日期 T.S. (kg/mm^2) M30314 195~220 抗拉强度 0.30-0.60 203 Wu 0.49 PS : Wrapping test is suitable for the wire diameter less than 0.5mm. Ovality (mm) **JIS G 3521** 0.005MAX 0.15-0.35 Process No. 徑偏差 0.003 Order NO. 0.22 ŝ 製造工令 註:搖挑湖試過用線徑小於0.5mm硬油鋼線。 Diameter (mm) SW-C 1.20mm 1.20(-0.015) 函蒙 0.79-0.86 幕前 1.193 0.83 0 Chemical Analysis Standard Values Average results Standard Values Characteristic Specification Custermer Test Results 测试平均值 测试平均值 Standard 族雄標率 成份分析 標準值 操奉後 日本 规格 西原

Spring Yi Industrial Co.,LTD **直**業4 品保書 ALTRH

JA50930-



Test Report

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/2004/73547 Date : 2004/08/03 :1 of 1 Page

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

Type of Product	:	SAE1018-Ni	
Sample Received	:	2004/07/27	
Testing Date	:	2004/07/27 TO 2004/08/03	

Test Result

PART NAME NO.1 SILVER COLORED METAL

	2			Result			
Test Item (s):	Unit	Method	MDL	No.1			
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.		ing was	
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			19. Norosatori -
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	27.3			

NOTE: (1) N.D. = Not detected (<MDL) (2) ppm = mg/kg•

· (3) MDL = Method Detection Limit

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SSS Teiwen Ltd.	No. 136-1 Wu Keng Road, 1	Nuku Industrial Zone, Taipei County, Taiwan.	/台北縣五股工業區五工路136-1號
台湾被敞科技股份有限公司	1 (888-2) 2299-3939	f (886-2) 2299-3237	www.tw.sgs.com
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Test Report

CHUNG YIN SPRING INDUSTRIAL CO., LTD. 36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

1

Report No. : CE/2004/73545 Date : 2004/08/03 Page : 1 of 1

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

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					al and the liter	 1	and the second s	and the second s
Type of Product	-	SWC-Ni	hinter .				- a state	
Sample Received	:	2004/07	/27					
Testing Date	:	2004/07	/27 TO 2004	/08/03				

Test Result

PART NAME NO.1 : SILVER COLORED METAL SCREW

				Result				
Test Item (s):	Unit	Method	MDL	No.1				
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.	-			
Mercury (Hg)	bbw	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	in an			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	40.3		-		

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

for and on b - **T** TAMAN LTD.

TW 0975156

 393 Telwan Ltd. No. 138-1 Wu Kung Rosd, Wuke Industrial Zone, Tsipei County, Tsiwan. /台大林五段工業區五工路136-1竟 台湾故放斜技配份有限公司 (888-2) 2299-3939 f (888-2) 2299-3939 f (888-2) 2299-3237 www.wws.uw.ags.com

unber of 202 Group



CHUNG YIN SPRING INDUSTRIAL CO., LTD.Report No. : CE/2005/9030236, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY,
TAIPEI HSIEN, TAIWAN, R. O. C.Date : 2005/09/07Page : 1 of 1

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

Type of Product	:	S50C Ni
Sample Received	:	2005/08/31
Testing Date	:	2005/08/31 TO 2005/09/07

<u>Test Result</u>

PART NAME NO.1

: SILVER COLORED METAL

m-4 14 4-V	77.44	Nr. 41 a 1	MOL	Result
Test Item (s):	Unit	Unit Method		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

Dani **Operation Manager**

Signed for and on behalf of SGS TAIWAN LTD.

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SGS TAIWAN LIMITED NO. 136-1, Wu Kung Road, Wu ku industrial Zone, Taipei county, Taiwan. t(886-2) 22933391(886-2) 2293-3237 www.sgs.com.tw

	U	Ω	θ	⊳
1	TOL ± M1 M2 S1 S2 P1 P2 0~6 0.05 0.10 0.15 0.20 0.05 0.10 6~30 0.10 0.20 0.15 0.25 0.10 0.15 30~120 0.15 0.25 0.20 0.45 0.40 0.80 120~300 0.15 0.30 0.25 0.45 0.40 0.80 300~600 0.20 0.30 0.80 0.70 1.10 0.80 1.21 ANG. TOL± T T 1* 1* 1*			1
2 C	c UR MIDEL JATO55 0.50 0.20 0.20 JATO55 1.00 0.25 DRN Kathy 2005 0.3.00 0.45 DRN Kathy 2005 0.3.00 1.20 DSN David 2005 0.4.00 1.50 CKD John 2005 APPD Jerry 2005 CHIA			
З	HAME Base Plate			
4	REV. DESCRIPTION SIGNDATE DIM IN MM SCALE DWG SHEET 1 DF 1 DRAWING NO. JATO55			<u>م</u>





赱 ፚ ល 介

品名:EVA 數據準備板(Ethylone Vinyl Acetate Sponge Sheet) 加工方法:壓縮成型(發泡) 特性及用途: EVA發泡是一種共聚合型膠,具有很多便具特性,包括茶軟而有强性、透明、無毒 抗外界應力觀裂性很強、抗實擊強度高、低温柔軟性很好,以及加工容弱,所以用以發 素公可新用途之一,是添加潤滑開、交聯則及發泡開、以壓縮成型製造、等高品質 EVA 數醇海棉板,目前歸行使用於工業界積密鎖器、耐實聲吸收材、電氣過操板、防震 村、追緊、背膠、包裝用包裝材、運動获具、鞋類、帽子、運動袋、玩具、遊樂用品、

成品性質:

员名 特性	EVA	塑	海	棉	板
現度 HARDHESS 線度 DEHS ITY ×/CH ² 抗張強度 TENSILE STRENGTH 延伸率 FLONGATION % 疑他率 BLOVING 防水率 VATER ABSORPTION	25 0.10-0.20 8 Kg/cm2 450 14倍 0.3%以下	30 0.20 7 500 10 伊	-0.25		50 0.3-0.35 9 500 10指

製成品所需用料數量表

	æ	用		原	料	名	将	及	数		<u>ال</u>	
ų.	文	名	鸫	英		文	名	相	R	刃	數	毌
Έ.Υ	. Λ. 翔	B	粒	Eth	y l·ane	Vinyl Ac	etate Re	sin		BØ.	00%	
Ð	池		55	Blo	ving A	Kent			1	2.	5%	
開	媒		用	Cro	ss Lin	king Ago	nt "Perc	umyl D"	1	0.	6∙3 <i>%</i>	
<u>اط</u>	B A		¢j	Hak	uenkaa	CC				14.	00%	
涣	B	裦	±	Cla	у					15.	50%	
ą	12		馘	Ste	sric A	cid				1.	50%	
7	遊		₿¥	Eth	yleae	Propylen	e Kubber		1	5.	82%	
								Total	1	00	96	



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.

TESTS CONDUCTED:

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES TAIWAN LIMITED

JACOB LIN GENERAL MANAGER

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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	

REMARK : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

END OF REPORT

JATOLS AND



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的吃牙要要

L)

品名:EVA觀線海棉板(Ethylone Vinyl Acetate Sponge Sheet) 加工方法:壓縮成型(發泡) 特性及用途:

EVA發泡足一種共聚合型膠,具有很多優異特性,包括茶軟而有預性、透明、無毒、抗外界應力觀裂性很強、抗衝擊強度高、低温柔軟性很好,以及加工容弱,所以用以發展新用途及代替PE、橡膠及其他彈性材料。 本公司新用途之一。是添加潤滑劑、交聯點及發泡劑、以壓縮成型製造、等高品質

EVA塑膠海棉板,目前盛行使用於工業界積密鐵器、耐衝擊吸收材、電氣通速板、防震 材、迫緊、實膠、包裝用包裝材、運動茯具、鞋類、帽子、運動袋、玩具、遊樂用品、 教育資材等。

品名	ENA	塑膠海棉	板
硬度 ARDNESS 密度 DENSITY x/CN 抗强强度 TENSILE STRENGT 延伸率 ELONGATION 96 强他半 BLOVING 防水率 VATER ABSORPTION	25 0.10-0.20 8 Kg/cm2 450 14倍 0.3%以下	30 0.20-0.25 7 500 10相	50 0.3-0.35 9 500 10倍

製成品所需用料數量表

思 用	原	料名啊及	数量
业 文 名	书	<u> </u>	愿用数量
E. V. A. 194 19 1	2	Ethylane Vinyl Acetate Resin	60.00%
报 池 『	8	Bloving Agent	2.5 %
	N	Cross Linking Agent "Percumyl D"	0.03%
	AI .	Hakuenkaa CC	14.00%
关 阿 砚	±	Clay	15.50%
	iit .	Stearle Acid ,	1.50%
人造!	X	Ethylene Propylene Kubber	5.82%
		Total	100 96



Т	es	t R	ep	ort

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以下测试操品万供應廠商所提供及確認:

拨品名稱	:	EVA
產品型號	1	EVA
收件日期	:	2005/07/14 & 2005/08/04
测试日期	:	2004/07/14 TO 2004/07/21
		2005/08/04 TO 2005/08/11

:

测试结果

此份樣品所化驗的化學物質—鉛、錫、汞、六價絡、多溴 聯苯及多溴聯苯醚的测试结果,符合RoHS指令

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* 此份報告為合併CE/2004/72761A之報告 *

ration Manao d for and on behalf of GS TAWAN LTD.



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测试结果

测试部位 NO.1

黑色EVA(請參照附件圖片)

and all the state of a	-	الد علم الله	All cost dec. set. All	· 结果	ROHS
M 14/7/ 4 1	-	201 201 201 201	10, 20, 20, 17, 18,	NO.1	原住
一溴聯苯	%		0.0005	N.D.	-
二溴聯苯	%		0.0005	N.D.	-
三溴聯苯	%		0.0005	N.D.	-
四溴聯苯	%	小湖湖今天USEPA3540C 泉。 IISEPA3550C方法,以备相局折得/	0.0005	N.D.	-
五溴聯苯	%	質譜儀(GC/MS)或高效液相層析儀/	0.0005	N.D.	-
六溴聯苯	%	二極體陣列領測器/質譜儀	0.0005	N.D.	-
七溴聯苯	%	(HPLC/DAD/MS) 檢測之(多考默望規	0.0005	N.D.	-
八溴聯苯	%	轮 2002/95/EC (RoHS),	0.0005	N.D.	-
九溴聯苯	%	83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
十溴聯苯	%		0.0005	N.D.	-
多溴菊苯(PBBs)/以上總	%			N.D.	0.1
一溴聯苯醚	%	Maximum and and an and and and and and and and	0.0005	N.D.	-
二溴啉苯醚	*		- 0.0005	N.D.	the state
三決聯苯戰	*		0.0005	N.D.	
四溴聯苯醚	%	本测试多考USEPA3540C 或	0.0005	N.D.	+
五溴聯苯醚	%	USEPA3550C方法,以氣相層析儀/	0.0005	N.D.	-
六溴聯苯醚	%	了, 降低(GC/MS),或高效液剂/增矿低/	0.0005	N.D.	-
七溴聯苯醚	%	(HPLC/DAD/MS) 检测之(冬考歐盟規	0.0005	N.D.	-
入決聯苯醚	*	義 2002/95/EC (RoHS),	0.0005	N.D.	-
九溴聯苯醚	*	83/264/EEC, 76/769/EEC)	0.0005	N.D.	-
十溴聯苯醚	*		0.0005	N.D.	+
多決導革建 (PBBBs/PBDBs)/以上進行	%		-	N.D.	0.1

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SOS TAIWAN LIMITED NO. 138-1, Wu Kung Road, WuKu Industrial Zone, Teipeli county, Taiwan. 1(898-2) 22993939 ((898-2) 2299-3237 www.sgs.com.lw



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	14	M 47 47 44	/à 14 45 18 /à	林果一	RÕHS
	TH		at adda to a	NO.1	7.佳
六價路	ppm	依照US EPA 3060A方法。用UV-VIS 做分析	2	N.D.	1000
ŝħ	ppm	依照 EN1122 方法B:2001或其他酸 消化方法,用感息耦合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.	100
汞	ppm	依照 US EPA 3052 方法或其他酸 消化方法,用感應聽合電漿原子發 射光譜儀(ICP-AES)做分析	2	N.D.	1000
轮	ppm	依照 US EPA 3050B 方法或其他酸 消化方法,用感應聽合電漿原子發 射光譜儀(ICP-AES)微分析	2	N.D.	1000

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(偵测極限值)

(4) "-" = Not Regulation / 無規格值



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DOW CORNING TORAY SILICONE

SC102

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 ^b)	0.0%	2.0%	
Volume increase	0.9%	3.0%	
Oil bleed on alminum plate	News		
120°C / 24hrs	None	observed	
Appearance after heating	No shaara	No sharara	
150°C / 24hrs	ivo change	ino 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/2005/81840Date: 2005/08/15Page: 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.

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Test Result

PART NAME NO.1

WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (c):	TTeste	Method	MDL	Result
Test Itelli (s):		Mediod	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	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	%		-	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 76/769/EEC)	0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
Total PBBEs(PBDEs)(Polybromin ated biphenyl ethers)/Sum of above	%	,,,	-	N.D.



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Test Item (s):	Unit	Method	MDL	Result
				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



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