

 Report No. : KA/2009/22196

 Date
 : 2009/03/04

 Page
 : 1 of 6

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

Sample Description	:	TRANSISTOR, DIODE, MOSFET, THYRISTOR, TVS
Style/Item No.		SMA.SMB,SMC,D-PAK,D2-PAK,I2-PAK,TO-220,TO-220A,ITO-220,ITO- 220A,TO-3P,TO-3P(S),TO-126,TO-247,TO-262,TO-263,TO-251,TO-252,DO- 15,DO-41,DO-201,SOT-23,SOD-323(ROHS PORCESS)
Sample Receiving Date Testing Period	:	2009/02/26 2009/02/26 TO 2009/3/4

Test Result(s)

: - Please see the next page(s) -

Kay 'Kang

Ray Chang / Asst. Manager/ Signed for and on behalf of SGS Taiwan Limited

Unless otherwise stated the results shown in this last raport refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明, 化硬化结果解释配法工作超位设。本模拟主要本的可靠能行可。不可能的接触。

In sus, wereau prior women permastron to use Company. Introduction of Service printed conductor 4 KERKET-1488101 - 1-1881101 - 1-1881101 - 1-1881101 - 1-1881101 - 1-1881101 - 1-1881101 - 198



Report No. : KA/2009/22196 : 2009/03/04 Date : 2 of 6 Page

Test Result(s)

PART NAME NO.1 PART NAME NO.2 : MIXED ALL PARTS OF BODY : SILVER METAL PIN

Test Item (s)	Unit	Method	MDL	Result	
				No.1	No.2
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2	n.d.	
Cadmium (Cd)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Cadmium by ICP-AES.	2		n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for metallic samples by Spot test / boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area		Negative
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	4200	
Lead (Pb)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Lead by ICP-AES.	2	Lo tre 07	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Mercury by ICP-AES.	2	n.d.	n.d.

Unless otherwise stated the results shown in discuss report refer only to the sampsing tested. This test report cannot be reproduced, except in full, without price written permission of the Company. 由此实行这些 人名英格兰斯特拉克加拉雷斯特达克斯特拉克 医结核 人名英格兰斯特 人名英格兰斯特 人名英格兰斯特 化合同合金 accepted in the Company under its Contains of Service printed overland or available on request and acceptible at this/figure/ to the contained before refer on the Company under its Contains of Service printed overland or available on request and acceptible at this/figure/ to the contained before reference on the company's index of the contained before reference on the company's index of the service printed overland or available of request and acceptible at the time of its vibrariation only and written the insite of Calent's instructions, if any. The Company's scale responsibility is to its Calent and this document does not explore the transmitted or the transmitten or destand before responsibility is to its calend the document of the service of the service of the service of the service of the document of the service of the service of the service of the document of the document of the service of the service of the service of the service of the document of the document of the service of the service of the service of the document of the document of the service of the service of the service of the document of the document of the test.



Report No. : KA/2009/22196 : 2009/03/04 Date : 3 of 6 Page

Test Item (s)	Unit	Method	MDL	Result	
				No.1	No.2
Sum of PBBs		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.	-		
Monobromobiphenyl]		5	n.d.	
Dibromobiphenyl]		5	n.d.	
Tribromobiphenyl			5	n.d.	
Tetrabromobiphenyl	mg/kg		5	n.d.	
Pentabromobiphenyl			5	n.d.	
Hexabromobiphenyl			5	n.d.	
Heptabromobiphenyl			5	n.d.	
Octabromobiphenyl			5	n.d.	
Nonabromobiphenyl]		5	n.d.	
Decabromobiphenyl			5	n.d.	
Monobromodiphenyl ether			5	n.d.	aur 140 ma
Sum of PBDEs		With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of PBBs and PBDEs by GC/MS.	-	n.d.	
Monobromodiphenyl ether			5	n.d.	
Dibromodiphenyl ether			5	n.d.	
Tribromodiphenyl ether			5	n.d.	
Tetrabromodiphenyl ether	-mg/kg		5	n.d.	
Pentabromodiphenyl ether	linging		5	n.d.	wa 100 400
Hexabromodiphenyl ether			5	n.d.	
Heptabromodiphenyl ether			5	n.d.	
Octabromodiphenyl ether			5	n.d.	
Nonabromodiphenyl ether			5	n.d.	
Decabromodiphenyl ether	<u> </u>		5	n.d.	

Unless otherwise stated the results shown in this test report refer only to the sampla(a) tested. This test mport cannot be reproduced, encept in full, without prior written permission of the Company, 由此写真规则, 此意感到理解的起意情况,在他的来能不会问道能是可一下可能指视到一 This Test Report is issued by the Company, under its General Continents of Service printed overless or available or request and accessible at <u>Historyways company</u>, and <u>condenses</u> and <u>condenses</u> of Service printed overless or available or request and accessible at <u>Historyways company</u>, and <u>condenses</u> the available of history is a service printed overless or available or request and accessible at <u>Historyways condenses</u>, and <u>condenses</u> then any the test response of the service printed overlass of protection issued the test utervanition only and within the limits of Carnia and theory of the condense decrease reflects the Company's indicated at the document does not expensive yor takefloation of the content of one service printed overlass of the transaction documents. Any uterthorized attenuition only and within the limits of Carnia and threat on the service printed overlass of the transaction document does not expensively or takefloation of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report No. : KA/2009/22196 : 2009/03/04 Date : 4 of 6 Page

- Note : 1. mg/kg = ppm; 0.1wt% = 1000ppm
 - 2. n.d. = Not Detected
 - 3. MDL = Method Detection Limit
 - 4. The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
 - 5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer, Positive = Presence of Cr(VI) coating / surface (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

- Boiling-water-extraction:
 - Negative = Absence of Cr(VI) coating / surface layer,
 - Positive = Presence of Cr(VI) coating / surface layer the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg
 - with 50 cm² sample surface area.
- 6. " " = Not Regulated
- 7. " --- " = Not Conducted
- 8. ** = Qualitative analysis (No Unit)

timess otherwise stated the results shown in this test report refer only to the samplets) teeted. This test report cannot be reproduced, except in tell, without prior written permission of the Company. 前非资行规则,发展各结果播售者以上接需负责,本额资本额本公司资源部刊,不可能排展数,

nr cos, wiener pox wnien pertusion o die company, enzysty 规则,更被指定非常行规定之过起活动,不能是主要无论运动规则到。 化气体和线管 This Test Repart is issued by the Company under its General Conditions of Service printed overleaf or available on duals of accessible at http://www.sga.com/dens_agd_conditions.thm, Attention is drawn to the similation of liability, indemnification and junkdiction issues defined therein. Any bolder of this Test Report is advised that information contained hereon reflects the Company's indenga at the time of its attentions only and within the limits of Clamits instruction, if any. The Company's sole responsibility is to its Clamitan data in the data of the instruction data and the instruction and under the time of its not expension only and within the limits of Clamit's instructions, if any. The Company's sole responsibility is to its Clamit on the data of a particulation of the time of the transaction decomments. Any unauthorized alternative, forgety or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the flaw



Report No. : KA/2009/22196 : 2009/03/04 Date Page :5 of 6

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded.
- Name of the person who made measurement: Hungming Li 2)
- 3) Name of the person in charge of measurement: Ray Chang



unities otherwise stated the regults shown in this test report refer only to the sample(s) tested. This test report classic be reproduced, except in talk, without prior written permission of the Company. 能力可能的同步是最高级规模的能过之接高价有少非常多少可推稳的同步,并可能用截覆

at use, we used prior wherein permission on the Company. 能力引行说明,是最低低小的常常之过的变化了,不能力力将在力力的推动的,不可能能被一 This Tast Report is issued by the Company under its General Contritions of Service printed overleaf or available on request and accessible at attrahywar, son compleming, and contitions alter. Alternitin is drawn to the initiation of liabitity, intermitication and jurisdiction issues defined therein, any bolier of this Test Report is advised that information contained libricity intermitication and jurisdiction issues defined intervention only and within the limits of Cient's instructions, if any. The Company's scie responsibility is to as Cient and the draw of the instruction only and within the limits of Cient's instructions, if any. The Company's scie responsibility is to as Cient and this document does not increasing parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unsubtinited attraction, forgetly or takefunction of the content or speezance of bits document is unlawful and other the transaction documents. Any unsubtracted extents of the fire



·····



Report No. : KA/2009/22196 Date : 2009/03/04 Page :6 of 6

** End of Report **

Chiese otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report caretot be hiproduced, except in full, without prior written permission of the Company, is 25/97201 is the Rest PERMISSING (LEGIN) + 4/87, 4/87