

Certificate of non-use of The Controlled Substances

Company name Littelfuse, LP (Subsidiary of Littelfuse, Inc.)

Product Covered Thyristor TO-251 Package (V-PAK)
 Thyristor TO-252 Package (D-PAK)

Issue Date August 12, 2010

It is hereby certified by Littelfuse, LP, that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes.

In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by

Koichiro Yoshimoto, Senior Product Engineer, Littelfuse, L.P.

(1) Parts, sub-materials and unit parts

This document covers Thyristor TO-251 Package (V-PAK) and TO-252 Package (D-PAK) supplied by Littelfuse, LP. Actual values in this report are taken from Q8004D4 and the result is generally applicable to all Thyristor TO-251 Package (V-PAK) and TO-252 Package (D-PAK) supplied by Littelfuse, LP.

Please see page 2 & 3 for the complete list of part number covered by this report.

< Homogeneous Materials used >

Please see figure and table 1 on page 4 and table 2 on page 4 of this document.

(2) The analytical data on all measurable substances

Please see annex 1 through 6, attached to this document

Remarks :

1. Pb (lead) contained in die bonding solder (item 8 on page 4) and passivation glass (item 7) to be categorized as exempt in RoHS Annex 5 and 7.

Please refer to Annex 7 of this report for the extract of the applicable exemptions of RoHS (EU Directive 2002/95/EC)

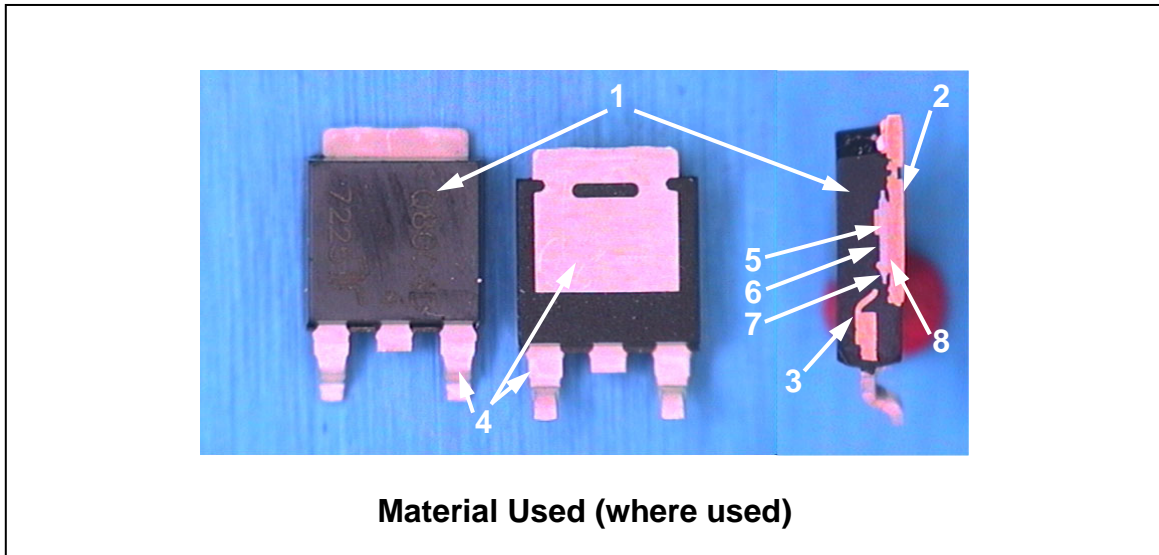
Littelfuse Part Number covered by this report (1/2)
TO-261 V Package

Standard (Catalog) Part Number				
L2004V3	LTV04-800T	S2004VS1	SK006V	SUFFIX FOR PACKING STYLE
L2004V5	LTV08-600BH	S2004VS2	SK008V	Any Part Number listed in this table is followed by RP or TP for packing style.
L2004V6	LTV08-600B	S2006VS2	SK010V	
L2004V8	LTV08-600CH	S2006VS3	SK012V	
L2006V5	LTV08-600C	S2006V		
L2006V6	LTV08-600SH	S2008VS2		SPECIAL DEVICE P/N
L2006V8	LTV08-600S	S2008VS3		
L2008V6	LTV08-600TH	S2008V		Any Special P/N that has base standard P/N listed in this table.
L2008V8	LTV08-600T	S2010VS2		
L4004V3	LTV08-800BH	S2010VS3		
L4004V5	LTV08-800B	S2010V		
L4004V6	LTV08-800CH	S2012V		
L4004V8	LTV08-800C	S4004VS1		
L4006V5	LTV08-800SH	S4004VS2		
L4006V6	LTV08-800S	S4006VS2		
L4006V8	LTV08-800TH	S4006VS3		
L4008V6	LTV08-800T	S4006V		
L4008V8		S4008VS2		
L6004V3		S4008VS3		
L6004V5	Q2004V3	S4008V		
L6004V6	Q2004V4	S4010VS2		
L6004V8	Q4004V3	S4010VS3		
L6006V5	Q4004V4	S4010V		
L6006V6	Q4006VH3	S4012V		
L6006V8	Q4006VH4	S6004VS1		
L6008V6	Q4008VH3	S6004VS2		
L6008V8	Q4008VH4	S6006VS2		
	Q6004V3	S6006VS3		
	Q6004V4	S6006V		
LTV04-600CH	Q6006VH3	S6008VS2		
LTV04-600C	Q6006VH4	S6008VS3		
LTV04-600SH	Q6008VH3	S6008V		
LTV04-600S	Q6008VH4	S6010VS2		
LTV04-600TH	Q8004V4	S6010VS3		
LTV04-600T	Q8006VH4	S6010V		
LTV04-800CH	Q8008VH4	S6012V		
LTV04-800C	QK004V4	S8006V		
LTV04-800SH	QK006VH4	S8008V		
LTV04-800S	QK008VH4	S8010V		
LTV04-800TH		S8012V		

Littelfuse Part Number covered by this report (2/2)

TO-262 D Package

Standard (Catalog) Part Number				
L2004D3	LTD04-800TH	S2004DS1	SK006D	SUFFIX FOR PACKING STYLE
L2004D5	LTD08-600B	S2004DS2	SK008D	Any Part Number listed in this table is followed by RP or TP for packing style.
L2004D6	LTD08-600BH	S2006D	SK010D	
L2004D8	LTD08-600C	S2006DS2	SK012D	
L2006D5	LTD08-600CH	S2006DS3		
L2006D6	LTD08-600S	S2008D		SPECIAL DEVICE P/N
L2006D8	LTD08-600SH	S2008DS2		
L2008D6	LTD08-600T	S2008DS3		Any Special P/N that has base standard P/N listed in this table.
L2008D8	LTD08-600TH	S2010D		
L4004D3	LTD08-800B	S2010DS2		
L4004D5	LTD08-800BH	S2010DS3		
L4004D6	LTD08-800C	S2012D		
L4004D8	LTD08-800CH	S4004DS1		
L4006D5	LTD08-800S	S4004DS2		
L4006D6	LTD08-800SH	S4006D		
L4006D8	LTD08-800T	S4006DS2		
L4008D6	LTD08-800TH	S4006DS3		
L4008D8		S4008D		
L6004D3		S4008DS2		
L6004D5	Q2004D3	S4008DS3		
L6004D6	Q2004D4	S4010D		
L6004D8	Q4004D3	S4010DS2		
L6006D5	Q4004D4	S4010DS3		
L6006D6	Q4006DH3	S4012D		
L6006D8	Q4006DH4	S6004DS1		
L6008D6	Q4008DH3	S6004DS2		
L6008D8	Q4008DH4	S6006D		
	Q6004D3	S6006DS2		
	Q6004D4	S6006DS3		
LTD04-600C	Q6006DH3	S6008D		
LTD04-600CH	Q6006DH4	S6008DS2		
LTD04-600S	Q6008DH3	S6008DS3		
LTD04-600SH	Q6008DH4	S6010D		
LTD04-600T	Q8004D4	S6010DS2		
LTD04-600TH	Q8006DH4	S6010DS3		
LTD04-800C	Q8008DH4	S6012D		
LTD04-800CH	QK004D4	S8006D		
LTD04-800S	QK006DH4	S8008D		
LTD04-800SH	QK008DH4	S8010D		
LTD04-800T		S8012D		


Table 1: Homogeneous Material Used

#	Description	Name of Material	Type	Analysis data
1	Molding compound	epoxy resin	plastic	annex 1
2	Lead frame	copper alloy	metal	annex 2
3	Preform (clip)			
4	Matte-Tin plating	Tin	metal	annex 3
5	Silicon die	silicon	metal	annex 4, tested as Nickel-plated wafer.
6	Nickel electrode	nickel	metal	
7	Passivation glass	glass	glass	annex 5. Pb in this glass is exempted by RoHS Annex 7.
8	Die bonding solder	solder	metal	annex 6. Pb in this solder is exempted by RoHS Annex 5.

Table 2: RoHS-regulated substance in raw materials

Components	Analysis Result					
	Cd Cadmium	Cr Chromium	Hg Mercury	Pb Lead	PBB	PBDE
As Component Total (Values of Q8004D4 * ¹ , as representative of Thyristor TO-251 & TO-252 Package)	< 2ppm	< 2ppm	< 2ppm	<10 ppm* ² (1.5%* ³)	< 5 ppm	< 5 ppm
Epoxy Resin compound (mixture of phenolix resin, epoxy resin, filler and Sb ₂ O ₃ as fire retardant) See Annex 1 for the detail.	< 2ppm	< 2ppm	< 2ppm	< 2ppm	< 5ppm	<5 ppm
Lead frame / Preform (Copper Alloy, KFC) See Annex 2 for the detail.	< 2ppm	< 2ppm	< 2ppm	< 2ppm	< 5ppm	<5 ppm
Outside lead finish (Matte-Tin plated, Sn 100%) See Annex 3 for the detail.	< 2ppm	< 2ppm	< 2ppm	<2ppm	< 5ppm	<5 ppm
Silicon Die (Silicon + Ni electrode) See Annex 4 for the detail.	< 2ppm	< 2ppm	< 2ppm	<2ppm	< 5ppm	<5 ppm
Passivation Glass See Annex 5 for the detail.	< 2ppm	< 2ppm	< 2ppm	40% * ⁴	< 5ppm	<5 ppm
Die Bonding Solder (Pb=92.5%) See Annex 6 for the detail.	< 2ppm	< 2ppm	< 2ppm	92.5% * ⁵	< 5ppm	<5 ppm

- *1 Other products may contain equal or less amount of Pb as Q8004D4 value shown here, but not more than the value shown here.
- *2 Less than 10ppm Pb content overall, excluding Pb from the die bonding solder and the passivation glass on the silicon die.
- *3 1.5wt% or 5mg of Pb (lead) content overall, including the RoHS-exempted use of Pb
- *4 Pb (lead) contained in passivation glass is exempted from restriction by RoHS Annex 5.
- *5 Pb (lead) contained in die bonding solder is exempted from restriction by RoHS Annex 7, first item.

Please refer to Annex 7 of this report for the applicable exemptions of RoHS (EU Directive 2002/95/EC)

Annex 1: Analysis Result of Molding Compound (Page 1 of 31)



Test Report

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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


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

Sample Description	:	環氧模塑料(EPOXY MOLDING COMPOUND)
Style/Item No.	:	ETERKON EK-1800
Sample Receiving Date	:	2009/11/30
Testing Period	:	2009/11/30 TO 2009/12/07

 =====
 Test Result(s) : Please refer to next page(s).



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

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Annex 1: Analysis Result of Molding Compound (Page 2 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Result(s)

PART NAME NO.1 : BLACK 環氧模塑料(EPOXY MOLDING COMPOUND)

Test Item(s):	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3052 for Antimony Content. Analysis was performed by ICP-AES.	2	5690
Polychlorinated Biphenyls (PCBs) (CAS No.: 001336-36-3)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by	0.5	n.d.
Polychlorinated Naphthalene (PCNs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by	5	n.d.
Polychlorinated Terphenyls (PCTs)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by	0.5	n.d.
Chlorinated Paraffin (C10~C13) (CAS No.: 085935-84-8)	%	With reference to US EPA 3540C method. Analysis was performed by	0.01	n.d.
Mirex (CAS No.: 002385-85-5)	mg/kg	With reference to US EPA 8270D method. Analysis was performed by	4	n.d.
2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 003946-71-7)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 3 of 31)



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ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result
				No.1
PFOA (CAS No.: 000335-87-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.
Tetrabromobisphenol A (TBBP-A) (CAS No.: 000079-94-7)	mg/kg	With reference to DIN 53313. Analysis was performed by GC/MS.	10	659
PVC	**	Analysis was performed by FTIR and FLAME Test.	-	Negative
Sum of PBBs			-	n.d.
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			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.
Sum of PBDEs			-	n.d.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	128
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	4890
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 4 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item(s):	Unit	Method	MDL	Result
				No.1
Phthalates				
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-1)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIDP (Diisodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DINP (Diisononyl phthalate) (CAS No.: 029553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 000084-75-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
CF C's (Chlorofluorocarbons)				
Group I				
Chlorofluorocarbon- 11 (CAS No.: 000075-69-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 12 (CAS No.: 000075-71-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 113 (CAS No.: 000076-13-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 114 (CAS No.: 000076-14-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 115 (CAS No.: 000076-15-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Group III				
Chlorofluorocarbon- 13 (CAS No.: 000075-72-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 111 (CAS No.: 000354-56-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 112 (CAS No.: 000076-12-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon- 211 (CAS No.: 000422-78-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 5 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
Chlorofluorocarbon-212 (CAS No.: 003182-26-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-213 (CAS No.: 002354-06-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-214 (CAS No.: 029255-31-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-215 (CAS No.: 004259-43-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-216 (CAS No.: 000661-97-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-217 (CAS No.: 000422-86-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Halons				
Halon-1211 (CAS No.: 000353-59-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Halon-1301 (CAS No.: 000075-63-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Halon-2402 (CAS No.: 000124-73-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFCs				
HCFC-21 (CAS No.: 000075-43-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-22 (CAS No.: 000075-45-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-31 (CAS No.: 000593-70-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-121 (CAS No.: 000354-14-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-122 (CAS No.: 000354-21-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-123 (CAS No.: 000306-83-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 6 of 31)



Test Report

No. : KA/2009/B2079 Date : 2009/12/07 Page : 6 of 31

ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result
				No. 1
HCFC-124 (CAS No.: 002837-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-131 (CAS No.: 000359-28-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-132b (CAS No.: 001649-08-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-133a (CAS No.: 000075-88-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-141b (CAS No.: 001717-00-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-142b (CAS No.: 000075-68-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-221 (CAS No.: 000422-26-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-222 (CAS No.: 000422-49-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-223 (CAS No.: 000422-52-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-224 (CAS No.: 000422-54-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-225ca (CAS No.: 000422-56-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-225cb (CAS No.: 000507-55-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-226 (CAS No.: 000431-87-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-231 (CAS No.: 000421-94-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-232 (CAS No.: 000460-89-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-233 (CAS No.: 007125-84-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 7 of 31)



Test Report

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ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result
				No.1
HCFC-234(CAS No.: 000425-94-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-235(CAS No.: 000460-92-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-241(CAS No.: 000666-27-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-242(CAS No.: 000460-69-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-243(CAS No.: 000460-69-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-244	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-251(CAS No.: 000421-41-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-252(CAS No.: 000819-00-1)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-253(CAS No.: 000460-35-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-261(CAS No.: 000420-97-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-262(CAS No.: 000420-99-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HCFC-271(CAS No.: 000430-55-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFCs				
HBFC-21B2 (CHF Br2) (CAS No.: 001868-53-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-22B1 (CHF 2Br) (CAS No.: 001511-62-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 8 of 31)



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No. : KA/2009/B2079 Date : 2009/12/07 Page : 8 of 31

ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result
				No.1
HBFC-31B1 (CH2FBr) (CAS No.: 000373-52-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-121B4 (C2HFBr4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-122B3 (C2HF2Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-123B2 (C2HF3Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-124B1 (C2HF4Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-131B3 (C2H2F Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-132B2 (C2H2F2Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-133B1 (C2H2F3Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-141B2 (C2H3F Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-142B1 (C2H3F2Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-151B1 (C2H4F Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-221B6 (C3HFBr6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-222B5 (C3HF2Br5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-223B4 (C3HF3Br4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-224B3 (C3HF4Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-225B2 (C3HF5Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 9 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
HBFC-226B1 (C3H2F6Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-231B5 (C3H2F Br5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-232B4 (C3H2F2Br4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-233B3 (C3H2F3Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-234B2 (C3H2F4Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-235B1 (C3H2F5Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-241B4 (C3H3F Br4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-242B3 (C3H3F2Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-243B2 (C3H3F3Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-244B1 (C3H3F4Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-251B3 (C3H4F Br3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-252B2 (C3H4F2Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-253B1 (C3H4F3Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-261B2 (C3H5F Br2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-262B1 (C3H5F2Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HBFC-271B1 (C3H6F Br)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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 中華民國100年12月7日
 中華民國100年12月7日
 中華民國100年12月7日

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Annex 1: Analysis Result of Molding Compound (Page 10 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
HF Cs (Hydrofluorocarbon)				
HFC-23 (CHF ₃)(CAS No.: 000075-46-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-32 (CH ₂ F ₂)(CAS No.: 000075-10-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-41 (CH ₃ F)(CAS No.: 000593-53-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-43-10mee (C ₅ H ₂ F ₁₀)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-125 (C ₂ H ₂ F ₅)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-134 (C ₂ H ₂ F ₄)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-134a (CH ₂ FCF ₃)(CAS No.: 000811-97-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-143 (C ₃ H ₃ F ₃)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-143a (CH ₃ F ₃)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-152a (C ₂ H ₄ F ₂)(CAS No.: 000075-37-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-227ea (C ₃ H ₇ F ₇)(CAS No.: 000431-89-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-236ea (C ₃ H ₂ F ₆)(CAS No.: 000431-63-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-236fa (C ₃ H ₂ F ₆)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-245ca (C ₃ H ₃ F ₅)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
HFC-245fa (C ₃ H ₃ F ₅)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 11 of 31)



Test Report

No. : KA/2009/B2079 Date : 2009/12/07 Page : 11 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
HFC-365mfc (C4H5F5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
PFCs (Perfluorocarbon)				
F14 (CAS No.: 000075-73-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Fluorocarbon 116 (CAS No.: 000076-16-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Freon 218 (CAS No.: 000076-19-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Decafluorobutane (CAS No.: 000355-25-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Freon C318 (CAS No.: 000115-25-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Perfluor-1-butene (CAS No.: 000357-26-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
perfluorobutene (CAS No.: 000382-21-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,4-dihydrooctafluorobutane (CAS No.: 000377-36-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Nonafluor-2- (trifluoromethyl) butane (CAS No.: 000594-91-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Perfluoro-n-pentane (CAS No.: 000678-26-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2-perfluoromethylpentane (CAS No.: 000355-04-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Perfluorohexane (CAS No.: 000355-42-0)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
CHCs (Chlorinate hydrocarbon)				
1,1,1,2-Tetrachloroethane (CAS No.: 000630-20-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 12 of 31)



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No. : KA/2009/B2079 Date : 2009/12/07 Page : 12 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
1,1,1-Trichloroethane (CAS No.: 000071-55-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1,2,2-Tetrachloroethane (CAS No.: 000079-34-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1,2-Trichloroethane (CAS No.: 000079-00-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethane (CAS No.: 000075-34-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethene (CAS No.: 000075-35-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloropropene (CAS No.: 000563-58-8)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2,3-Trichloropropane (CAS No.: 000096-18-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2-Dichloroethane (CAS No.: 000107-06-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,2-Dichloropropane (CAS No.: 000078-87-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
1,3-Dichloropropane (CAS No.: 000142-28-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
2,2-Dichloropropane (CAS No.: 000594-20-7)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Carbon tetrachloride (CAS No.: 000056-23-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chloroethane (CAS No.: 000075-00-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Chloroform (CAS No.: 000067-66-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 13 of 31)



Test Report

No. : KA/2009/B2079 Date : 2009/12/07 Page : 13 of 31

ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result No.1
Chloromethane (CAS No.: 000074-87-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
cis-1,2-Dichloroethene (CAS No.: 000156-59-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
cis-1,3-Dichloropropene (CAS No.: 010061-01-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Hexachlorobutadiene (CAS No.: 000087-68-3)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Methylene Chloride (CAS No.: 000075-09-2)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Tetrachloroethene (CAS No.: 000127-18-4)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
trans-1,2-Dichloroethene (CAS No.: 000156-60-5)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
trans-1,3-Dichloropropene (CAS No.: 010061-02-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Trichloroethylene (CAS No.: 000079-01-6)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Bromomethane (CAS No.: 000074-83-9)	mg/kg	With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.
Formaldehyde (CAS No.: 000050-00-0)	mg/kg	With reference to DIN 53315 method. Analysis was performed by HPLC/DAD.	3	n.d.
Asbestos				
Actinolite (CAS No.: 077536-66-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Amosite (CAS No.: 012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Anthophyllite (CAS No.: 077536-67-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Chrysotile (CAS No.: 012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Crocidolite (CAS No.: 012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Tremolite (CAS No.: 077536-68-6)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative

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Annex 1: Analysis Result of Molding Compound (Page 14 of 31)



Test Report

No. : KA/2009/B2079 Date : 2009/12/07 Page : 14 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
AZO				
1): 4-AMINODIPHENYL (CAS No.: 000092-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2): BENZIDINE (CAS No.: 00092-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
3): 4-CHLORO-O-TOLUIDINE (CAS No.: 000095-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4): 2-NAPHTHYLAMINE (CAS No.: 000091-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5): O-AMINOAZOTOLUENE (CAS No.: 000097-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6): 2-AMINO-4-NITROTOLUENE (CAS No.: 000099-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7): P-CHLOROANILINE (CAS No.: 000106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8): 2,4-DIAMINODISOLE (CAS No.: 000615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10): 3,3'-DICHLOROBENZIDINE (CAS No.: 000091-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 000119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 000119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
13): 3,3'-DIMETHYL-4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 000938-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14): P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 000120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
15): 4,4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No.: 000101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16): 4,4'-OXYDIANILINE (CAS No.: 000101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17): 4,4'-THIODIANILINE (CAS No.: 000139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 15 of 31)



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ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA



Test Item (s):	Unit	Method	MDL	Result
				No.1
18): O-TOLUIDINE (CAS No.: 000095-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19): 2,4-TOLUYLENEDIAMINE (CAS No.: 000095-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
20): 2,4,5-TRIMETHYLANILINE (CAS No.: 000137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21): O-ANISIDINE (CAS No.: 000090-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22): P-AMINOAZOBENZENE (CAS No.: 000060-09-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
23): 2,4-XYLIDINE (CAS No.: 000095-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24): 2,6-XYLIDINE (CAS No.: 000087-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
Organic-tin compounds				
Tributyl Tin (TBT) (CAS No.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin (TphT) (CAS No.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Tributyl Tin Oxide (TBTO)** (CAS No.: 000056-35-9)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	-	n.d.
Polynuclear Aromatic Hydrocarbons (PAHs)				
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed	0.2	n.d.
Acenaphthylene (CAS No.: 000208-96-8)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed	0.2	n.d.
Anthracene (CAS No.: 000120-12-7)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed	0.2	n.d.
Benzo[a]anthracene (CAS No.: 000056-55-3)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]pyrene (CAS No.: 000050-32-8)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.

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Annex 1: Analysis Result of Molding Compound (Page 16 of 31)



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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Test Item (s):	Unit	Method	MDL	Result
				No.1
Benzo[b]fluoranthene (CAS No.: 000205-99-2)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 000207-08-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Chrysene (CAS No.: 000218-01-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS No.: 000206-44-0)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluorene (CAS No.: 000086-73-7)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Indeno[1,2,3-c,d]pyrene (CAS No.: 000193-39-5)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Naphthalene (CAS No.: 000081-20-3)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Phenanthrene (CAS No.: 000085-01-8)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS No.: 000129-00-0)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Sum of 16 PAHs	mg/kg	-	-	n.d.

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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. ** = Qualitative analysis (No Unit)
 6. Negative = Undetectable / Positive = Detectable
 7. Negative = "< 1.0 %", Positive = "> 1.0 %"
 8. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.
 9. The Asbestos test was subcontracted to other SGS Laboratory.
 10. The PVC test was subcontracted to other SGS Laboratory.

Reference information:

Requirement of ZEK 01.2-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark : * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
 ** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §4 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than $1\mu\text{g}/\text{m}^2$ of the coated material.

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Annex 1: Analysis Result of Molding Compound (Page 18 of 31)

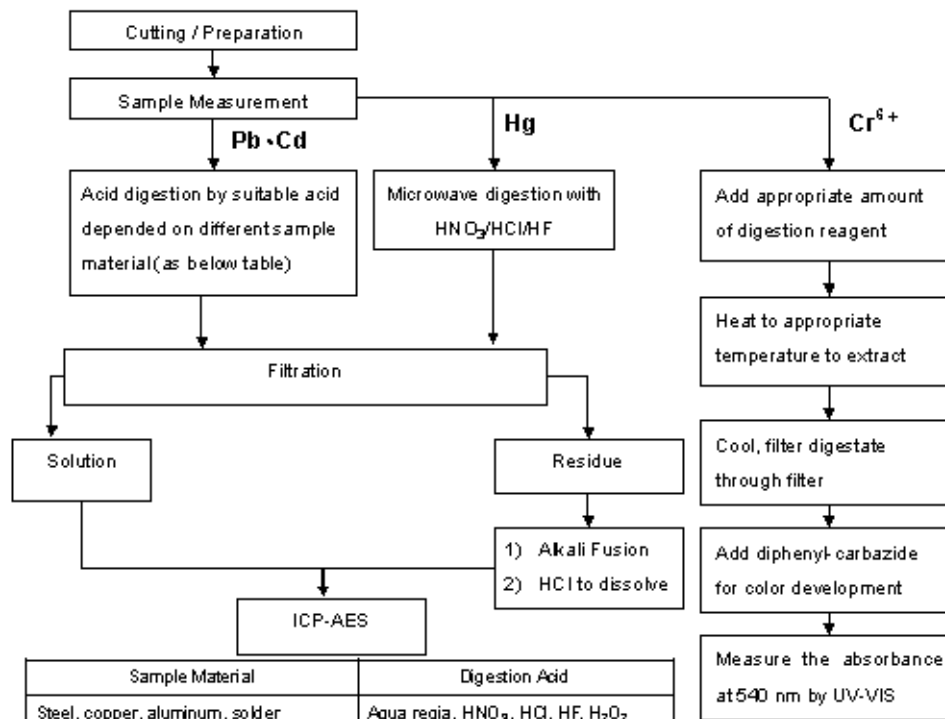


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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


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



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Annex 1: Analysis Result of Molding Compound (Page 19 of 31)



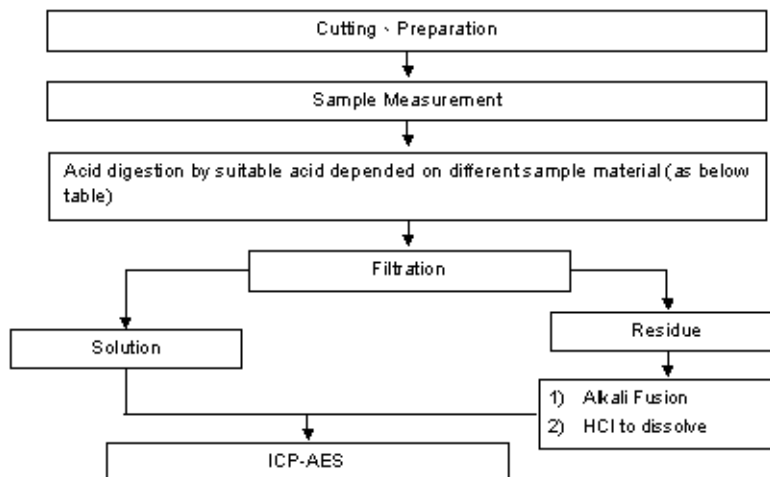
Test Report

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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


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

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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Annex 1: Analysis Result of Molding Compound (Page 20 of 31)



Test Report

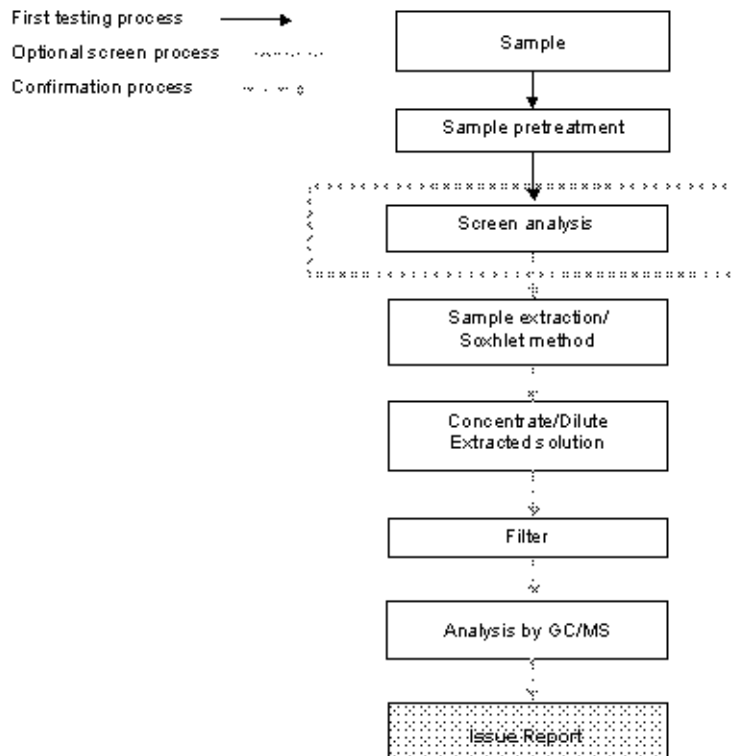
No. : KA/2009/B2079 Date : 2009/12/07 Page : 20 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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 中華民國 100 年 12 月 07 日
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Annex 1: Analysis Result of Molding Compound (Page 21 of 31)



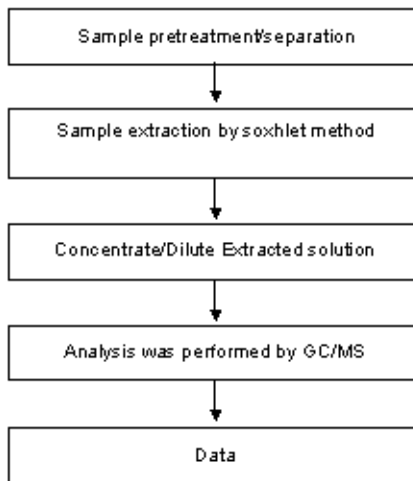
Test Report

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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 22 of 31)



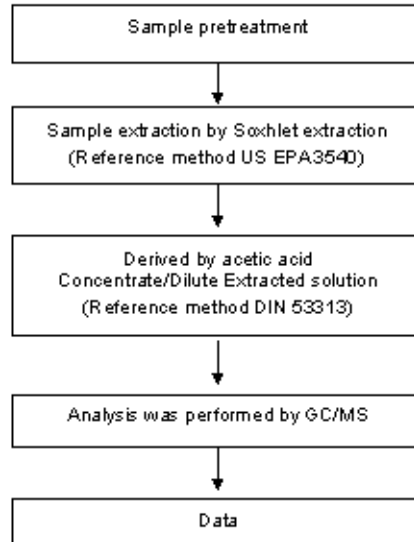
Test Report

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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


TBBP-A analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 23 of 31)



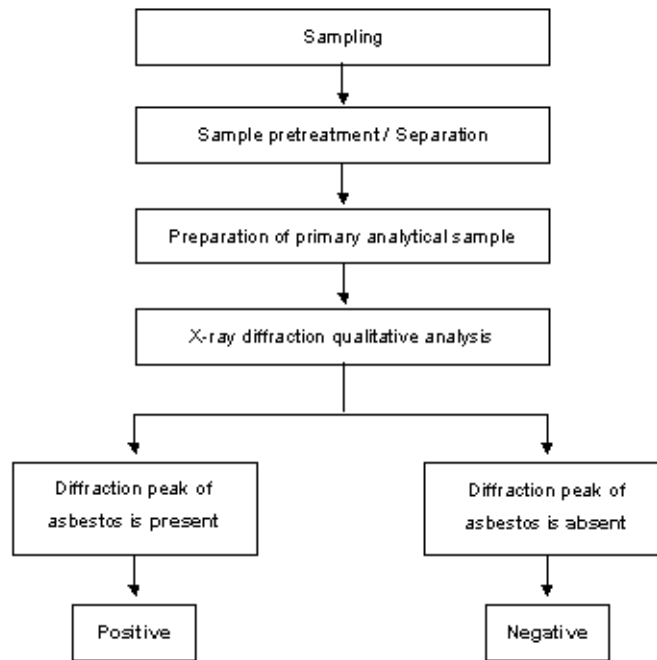
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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
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Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: James Lu



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Annex 1: Analysis Result of Molding Compound (Page 24 of 31)



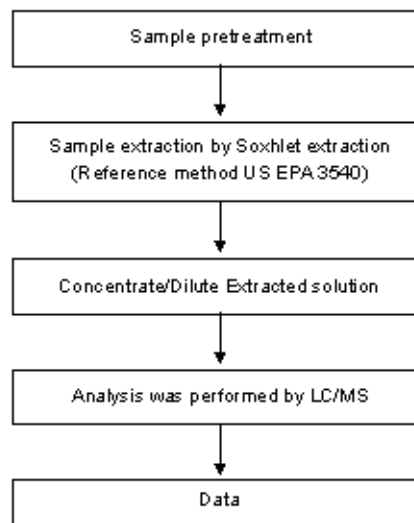
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No. : KA/2009/B2079 Date : 2009/12/07 Page : 24 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 25 of 31)



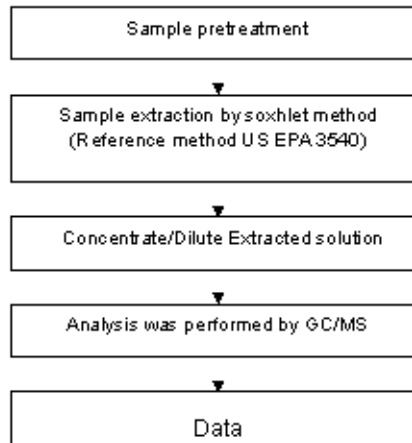
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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Analytical flow chart of benzotriazole content

- 1) Name of the person who made measurement Ans on Tsao
- 2) Name of the person in charge of measurement Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 26 of 31)



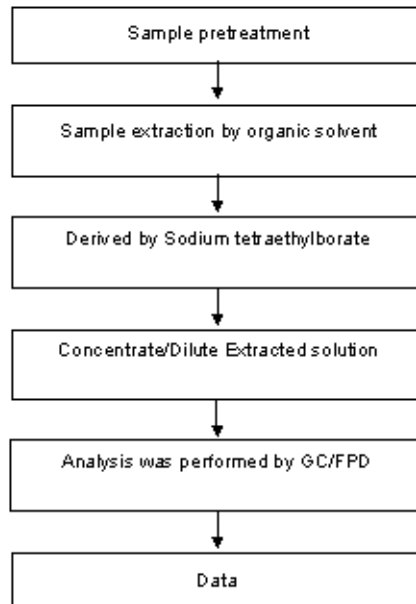
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No. : KA/2009/B2079 Date : 2009/12/07 Page : 26 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Analytical flow chart of Organic-Tin content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 27 of 31)



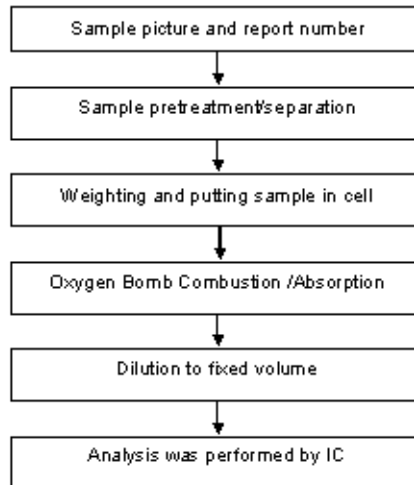
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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Hungming Li
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 28 of 31)



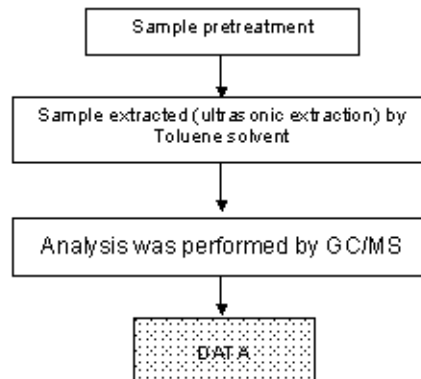
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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


PAHs (PolyAromaticHydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Annex 1: Analysis Result of Molding Compound (Page 29 of 31)



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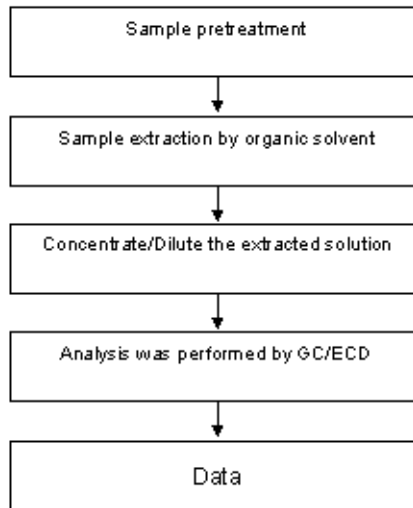
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 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

- Reference method: USEPA 3540
- Test Items: PCBs, CP, MCCP



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Annex 1: Analysis Result of Molding Compound (Page 30 of 31)



Test Report

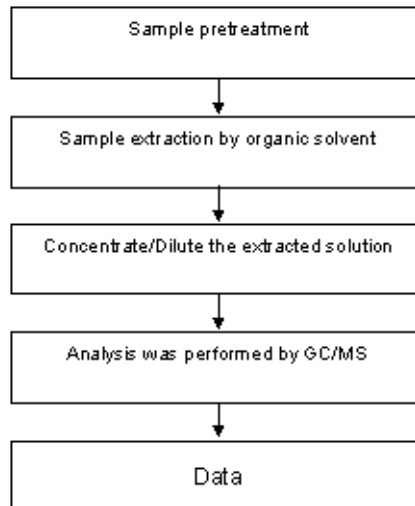
No. : KA/2009/B2079 Date : 2009/12/07 Page : 30 of 31

 ETERNAL ELECTRONIC MATERIALS (KUNSHAN) CO., LTD.
 267 QINGYANG ROAD, KUNSHAN JIANGSU PROVINCE, CHINA


Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement Anson Tsao
- 2) Name of the person in charge of measurement Ray Chang

- Reference method: US EPA 8270D, US EPA 3540
- Test Items: PCNs, PCTs, Mirex



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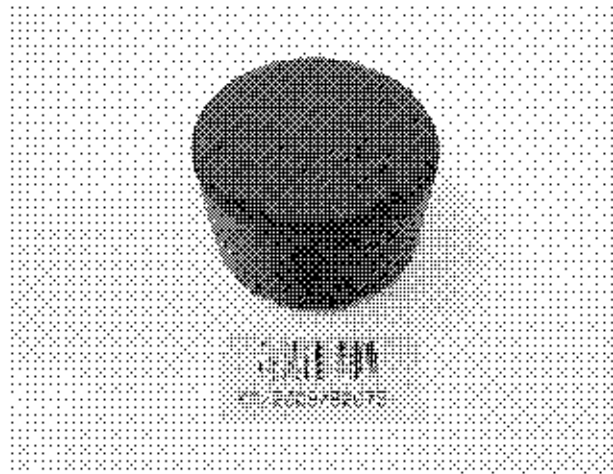
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Annex 1: Analysis Result of Molding Compound (Page 31 of 31)**SGS****Test Report**

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** End of Report **




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Annex 2: Analysis Result of Lead frame (Page 1 of 7)

	Validity unknown For Question Please Contact with SGS www.tw.sgs.com
Test Report	No. : CE/2009/C0486 Date : 2009/12/08 Page : 1 of 7
EXCEL CELL ELECTRONIC CO., LTD. NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN 40850	
The following sample(s) was/were submitted and identified by/on behalf of the client as :	
Sample Description : KFC Sample Receiving Date : 2009/12/01 Testing Period : 2009/12/01 TO 2009/12/08	
=====	
Test Result(s)	: Please refer to next page(s).
 Chenyu Kung / Operation Manager Signed for and on behalf of SGS TAIWAN LTD. Chemical Laboratory – Taipei	
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<small>SGS TAIWAN LTD. (SGS) 00000000000000000000</small>	

Annex 2: Analysis Result of Lead frame (Page 2 of 7)



Test Report

No.: CE/2009/C0486 Date: 2009/12/08 Page: 2 of 7

EXCEL CELL ELECTRONIC CO., LTD.
NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN
40850



Test Result(s)

PART NAME NO.1 : COPPER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 5)	0.02mg/kg with 50 cm ² surface area	Negative
Halogen				
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14682:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14682:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14682:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14682:2007. Analysis was performed by IC.	50	n.d.
Sum of PBBs			-	n.d.
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			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.

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Annex 2: Analysis Result of Lead frame (Page 3 of 7)



Test Report

No. : CE/2009/C0486 Date : 2009/12/08 Page : 3 of 7

EXCEL CELL ELECTRONIC CO., LTD.
NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN
40850



Test Item (s):	Unit	Method	MDL	Result
				No.1
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

Note : 1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. "- " = Not Regulated

5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer.

Positive = Presence of Cr(VI) coating / surface layer;

(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. ** = Qualitative analysis (No Unit)

SGS Taiwan Inc. 台灣檢驗科技股份有限公司
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Annex 2: Analysis Result of Lead frame (Page 4 of 7)

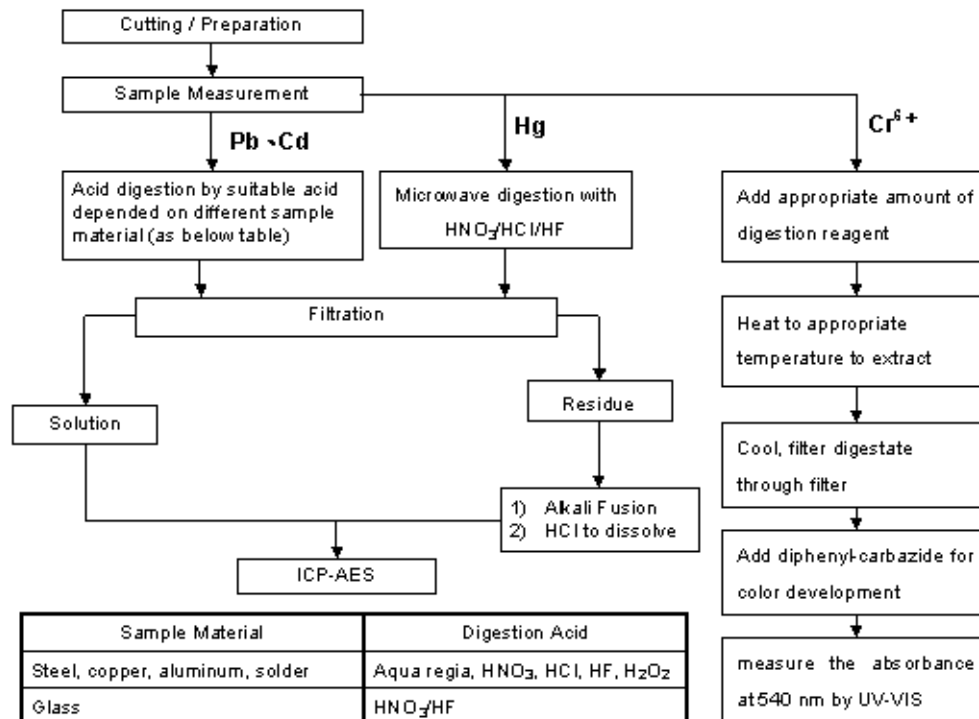


Test Report

No. : CE/2009/C0486 Date : 2009/12/08 Page : 4 of 7

 EXCEL CELL ELECTRONIC CO., LTD.
 NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN
 40850


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



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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SGS-CE/2009/C0486

Annex 2: Analysis Result of Lead frame (Page 5 of 7)



Test Report

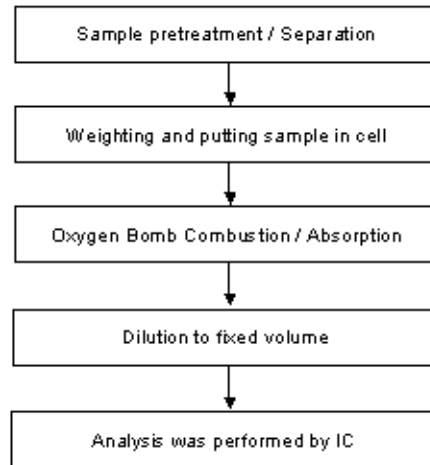
No. : CE/2009/C0486 Date : 2009/12/08 Page : 5 of 7

EXCEL CELL ELECTRONIC CO., LTD.
NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Alan Chen
- 2) Name of the person in charge of measurement: Troy Chang



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Annex 2: Analysis Result of Lead frame (Page 6 of 7)



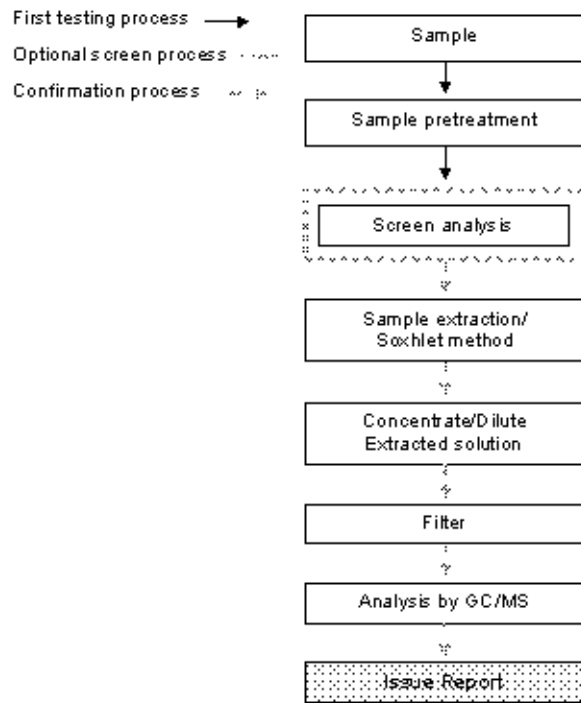
Test Report

No.: CE/2009/C0486 Date: 2009/12/08 Page: 6 of 7

 EXCEL CELL ELECTRONIC CO., LTD.
 NO. 23, 20 ROAD., TAICHUNG INDUSTRIAL PARK, TAICHUNG, TAIWAN
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Shinjyh Chen



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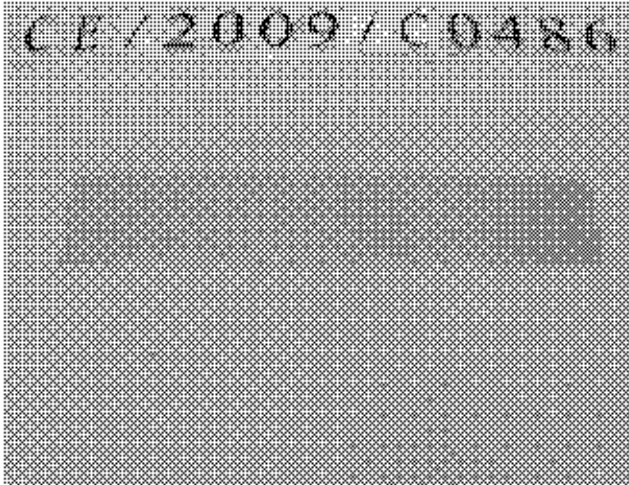
Annex 2: Analysis Result of Lead frame (Page 7 of 7)

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Test Report

No. : CE/2009/C0486 Date : 2009/12/08 Page : 7 of 7

EXCEL CELL ELECTRONIC CO., LTD.
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** End of Report **

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Annex 3: Analysis Result of Tin plating (page 1 of 5)**Test Report**

No. SHAEC0900108701

Date: 04 Dec 2009

Page 1 of 5

KUNSHAN TONGLONG ELECTRO PLATE (BANDL PLANT)

NO. 1698 ZIZHU RD. KUNSHAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : 挂镀锡面铜

SGS Job No. : SPO9-001317 - SH

Model No. : Sn/Ni LAYER

Date of Sample Received : 01 Dec 2009

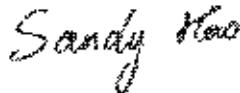
Testing Period : 01 Dec 2009 - 04 Dec 2009

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.Hao Jinyu, Sandy
Lab Manager

The following sample(s) was/were submitted and identified on behalf of the clients as : 挂镀锡面铜



Annex 3: Analysis Result of Tin plating (page 2 of 5)



Test Report

No. SHAEC0900108701

Date: 04 Dec 2009

Page 2 of 5

Test Results :

Test Part Description :

001 silvery metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "N" = Not Regulated

RoHS Directive 2002/95/EC

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test/ Colorimetric Method.
- (5) Determination of PBBs / PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	22
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	0	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND

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Annex 3: Analysis Result of Tin plating (page 3 of 5)



Test Report

No. SHAEC0900108701

Date: 04 Dec 2009

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>DDT</u>
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

(2) ♦ Spot-test:

Negative = Absence of Cr(VI) coating. Positive = Presence of Cr(VI) coating;

The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.

♦ Boiling-water-extraction:

Negative = Absence of Cr(VI) coating. Positive = Presence of Cr(VI) coating

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing



Annex 3: Analysis Result of Tin plating (page 4 of 5)



Test Report

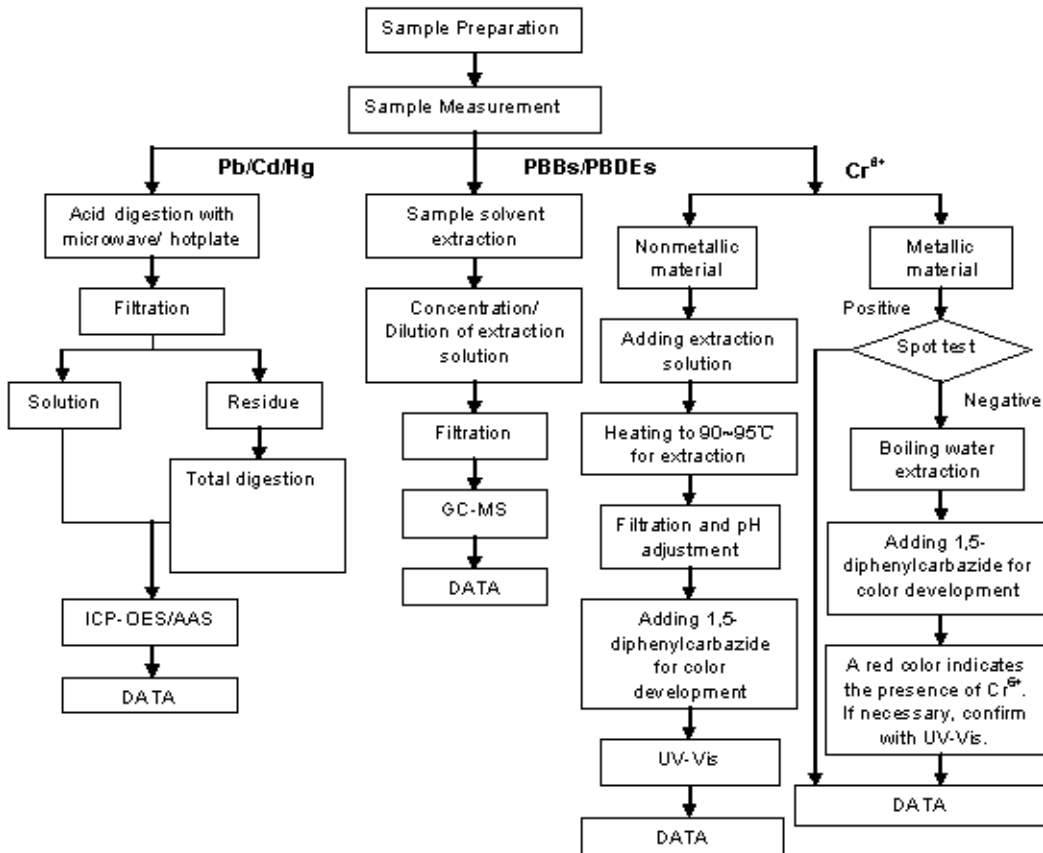
No. SHAEC0900108701

Date: 04 Dec 2009

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ATTACHMENTS

- 1) Name of the person who made measurement: Jeff Zhang/Even Xu/Frank Fang/Elim Lin
- 2) Name of the person in charge of measurement: Terry Wang/Phoebe Shen
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



Annex 3: Analysis Result of Tin plating (page 5 of 5)



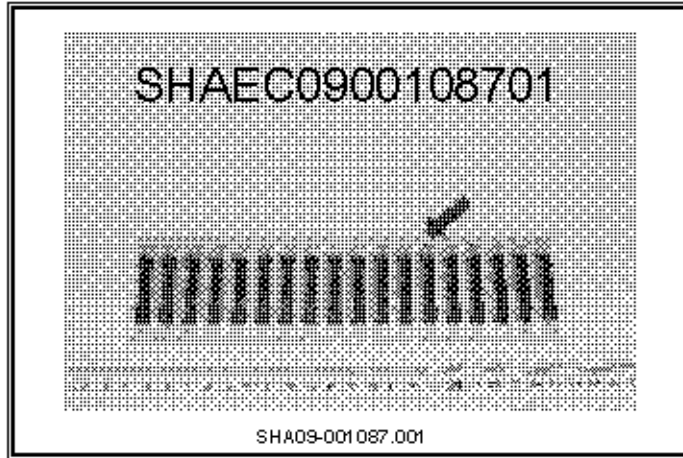
Test Report

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Date: 04 Dec 2009


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Sample photo:



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Annex 4: Analysis Result of Ni-plated Wafer (Page 1 of 7)**TEST REPORT**

NUMBER: WUXH00002719

APPLICANT: CONCORD SEMICONDUCTOR (WUXI) CO., LTD.
DATE: AUG 06, 2010
EAST 1#, ZHENFA 6 ROAD, SHUO FANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-
TECH DEVELOPMENT ZONE,
WUXI, JIANGSU, CHINA
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) PIECE OF SUBMITTED SAMPLE SAID TO BE : **SILVER GREY METAL**.
ITEM NAME : SILICON WAFER WITH NICKEL PLATING.
VENDOR : CONCORD.
COMPONENT OR PART NO. : SILICON+NICKEL.
TEST ITEM : Pb, Cd, Hg, CrVI, PBB, PBDE, F, Cl, Br, I.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

SUMMARY:

<u>TESTED SAMPLE</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	WITH REFERENCE TO TEST METHOD OF IEC 62321 EDITION 1.0: 2008 AND MAXIMUM CONCENTRATION LIMITS QUOTED FROM RoHS DIRECTIVES 2002/95/EC AND AMENDMENT 2005/618/EC	PASS

TO BE CONTINUED

PREPARED AND CHECKED BY:
FOR INTERTEK TESTING SERVICES WUXI LTD.



JESSICA LU
GENERAL MANAGER

PAGE 1 OF 7

Intertek Testing Services Wuxi Ltd.
No.8 Fubei Road, Xishan Economic Development Zone,
Wuxi 214101, Jiangsu, China
Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 4: Analysis Result of Ni-plated Wafer (Page 2 of 7)


TEST REPORT

NUMBER: WUXH00002719

TESTS CONDUCTED

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	ND
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)	
MONOBROMO BIPHENYLS (MonoBB)	ND
DIBROMO BIPHENYLS (DiBB)	ND
TRIBROMO BIPHENYLS (TriBB)	ND
TETRABROMO BIPHENYLS (TetraBB)	ND
PENTABROMO BIPHENYLS (PentaBB)	ND
HEXABROMO BIPHENYLS (HexaBB)	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND
OCTABROMO BIPHENYLS (OctaBB)	ND
NONABROMO BIPHENYLS (NonaBB)	ND
DECABROMO BIPHENYL (DecaBB)	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg/kg)	
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT= ppm

ND = NOT DETECTED

 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER

TO BE CONTINUED

PAGE 2 OF 7

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 Wuxi 214101, Jiangsu, China

Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 4: Analysis Result of Ni-plated Wafer (Page 3 of 7)


TEST REPORT

NUMBER: WUXH00002719

TESTS CONDUCTED

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 mg/kg)
LEAD (Pb)	0.1% (1000 mg/kg)
MERCURY (Hg)	0.1% (1000 mg/kg)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 mg/kg)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 mg/kg)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

(c) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg WITH 50cm ² (IN TESTING SOLUTION)
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC IEC 62321 EDITION 1.0: 2008, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY.	5 mg/kg

DATE SAMPLE RECEIVED:AUG 02, 2010

TESTING PERIOD:AUG 02, 2010 TO AUG 05, 2010

TO BE CONTINUED

PAGE 3 OF 7

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 No.8 Fubei Road, Xishan Economic Development Zone,
Wuxi 214101, Jiangsu, China

Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 4: Analysis Result of Ni-plated Wafer (Page 4 of 7)

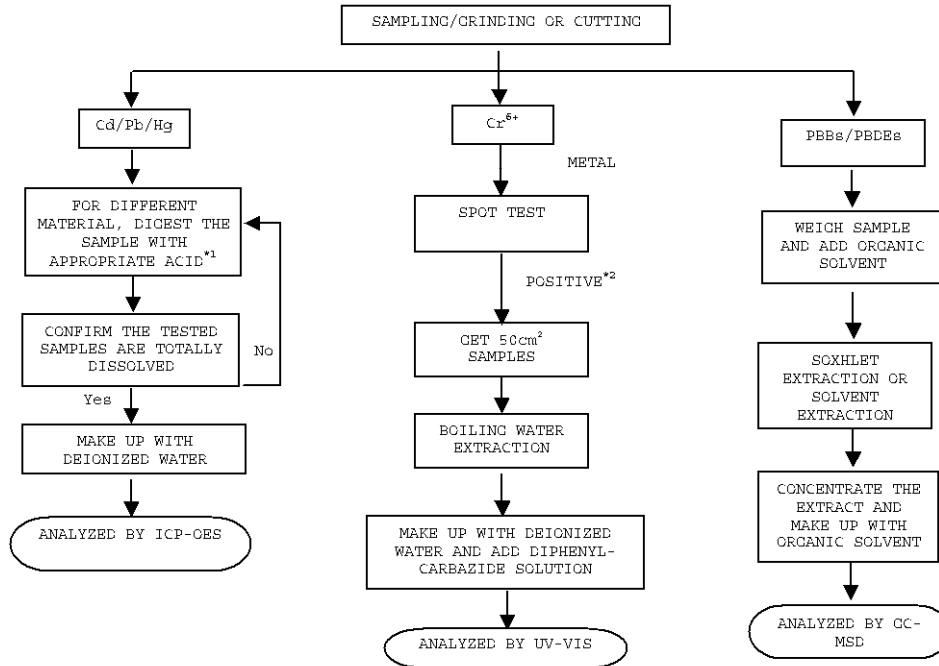
Intertek

TEST REPORT

NUMBER: WUXH00002719

TESTS CONDUCTED

(D) MEASUREMENT FLOWCHART:
 TEST FOR Cd/Pb/Hg/Cr (VI)/PBBs/PBDEs CONTENTS
 REFERENCE STANDARD: IEC 62321 EDITION 1.0: 2008



CHEMIST: INORGANIC (ANN LUO/FRED WANG/ALLY WAN)
 ORGANIC (JENNY XU/CHERRY SUN)

REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Annex 4: Analysis Result of Ni-plated Wafer (Page 5 of 7)


TEST REPORT

NUMBER: WUXH00002719

TESTS CONDUCTED

(I) TEST RESULT SUMMARY :

HALOGEN CONTENT :

TESTING ITEM	RESULT (ppm)
FLUORINE (F) CONTENT	ND
CHLORINE (Cl) CONTENT	ND
BROMINE (Br) CONTENT	ND
IODINE (I) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION = mg/kg

ND = NOT DETECTED

DATE SAMPLE RECEIVE: AUG 02, 2010

TEST PERIOD: AUG 02, 2010 TO AUG 05, 2010

(II) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
HALOGEN (F, Cl, Br, I) CONTENT	WITH REFERENCE TO IEC 61189-2:2006 BY COMBUSTION FLASK AND DETERMINED BY ION CHROMATOGRAPHY	50 ppm

REMARKS : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

 TO BE CONTINUED

PAGE 5 OF 7

Intertek Testing Services Wuxi Ltd.

 No.8 Fubei Road, Xishan Economic Development Zone,
 Wuxi 214101, Jiangsu, China

Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 4: Analysis Result of Ni-plated Wafer (Page 6 of 7)



TEST REPORT

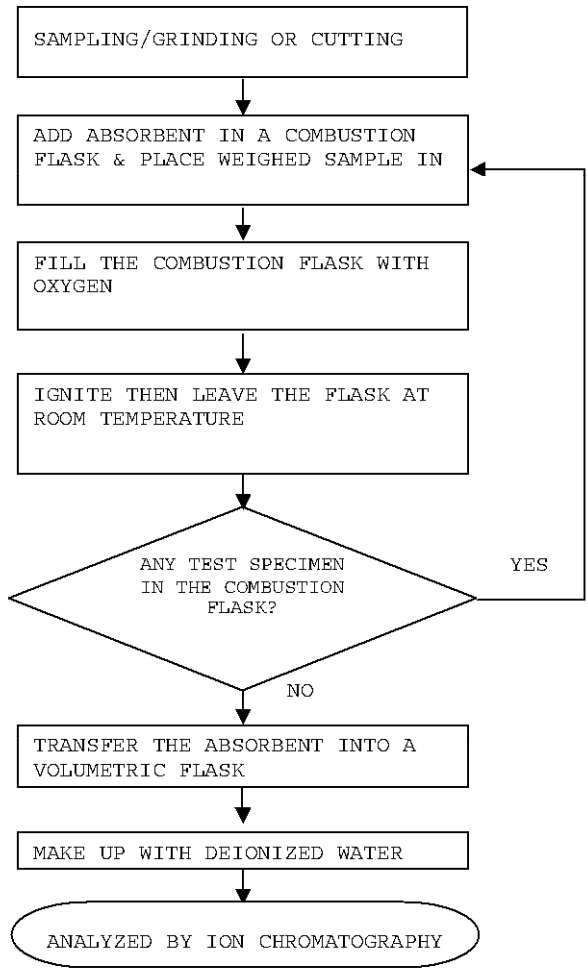
NUMBER: WUXH00002719

TESTS CONDUCTED

(III) MEASUREMENT FLOWCHART:

TEST FOR HALOGEN CONTENT

REFERENCE METHOD: IEC 61189-2 TEST 2C12



CHEMIST: FRED WANG/ ALLY WAN

TO BE CONTINUED

Annex 4: Analysis Result of Ni-plated Wafer (Page 7 of 7)



TEST REPORT

NUMBER: WUXH00002719

TESTS CONDUCTED

PHOTO



END OF REPORT

Annex 5: Analysis Result of Passivation Glass (Page 1 of 7)**TEST REPORT**

NUMBER: WUXH00002721

APPLICANT: CONCORD SEMICONDUCTOR (WUXI) CO.,
LTD.
EAST 1#, ZHENFA 6 ROAD, SHUO FANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-
TECH DEVELOPMENT ZONE,
WUXI, JIANGSU, CHINA
ATTN: ZHANG XIAOPENG

DATE: AUG 06, 2010

SAMPLE DESCRIPTION:

ONE (1) PIECE OF SUBMITTED SAMPLE SAID TO BE : **WHITE POWDER**.

ITEM NAME : WAFER PASSIVATION.

VENDOR : PROPRIETY.

COMPONENT OR PART NO. : PROPRIETY.

TEST ITEM : Pb, Cd, Hg, CrVI, PBB, PBDE, F, Cl, Br, I.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

PREPARED AND CHECKED BY:
FOR INTERTEK TESTING SERVICES WUXI LTD.



JESSICA LU
GENERAL MANAGER

PAGE 1 OF 7

Intertek Testing Services Wuxi Ltd.

No.8 Fubei Road, Xishan Economic Development Zone,
Wuxi 214101, Jiangsu, China

Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 5: Analysis Result of Passivation Glass (Page 2 of 7)


TEST REPORT

NUMBER: WUXH00002721

TESTS CONDUCTED

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	207400
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)	
MONOBROMO BIPHENYLS (MonoBB)	ND
DIBROMO BIPHENYLS (DiBB)	ND
TRIBROMO BIPHENYLS (TriBB)	ND
TETRABROMO BIPHENYLS (TetraBB)	ND
PENTABROMO BIPHENYLS (PentaBB)	ND
HEXABROMO BIPHENYLS (HexaBB)	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND
OCTABROMO BIPHENYLS (OctaBB)	ND
NONABROMO BIPHENYLS (NonaBB)	ND
DECABROMO BIPHENYL (DecaBB)	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg/kg)	
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT= ppm

ND = NOT DETECTED

= THE RESULT IS FOR REFERENCE ONLY

TO BE CONTINUED

PAGE 2 OF 7

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Annex 5: Analysis Result of Passivation Glass (Page 3 of 7)


TEST REPORT

NUMBER: WUXH00002721

TESTS CONDUCTED

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 mg/kg)
LEAD (Pb)	0.1% (1000 mg/kg)
MERCURY (Hg)	0.1% (1000 mg/kg)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 mg/kg)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 mg/kg)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

(c) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 EDITION 1.0: 2008, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 mg/kg
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC IEC 62321 EDITION 1.0: 2008, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY.	5 mg/kg

DATE SAMPLE RECEIVED: AUG 02, 2010

TESTING PERIOD: AUG 02, 2010 TO AUG 05, 2010

TO BE CONTINUED

PAGE 3 OF 7

Intertek Testing Services Wuxi Ltd.

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Annex 5: Analysis Result of Passivation Glass (Page 4 of 7)

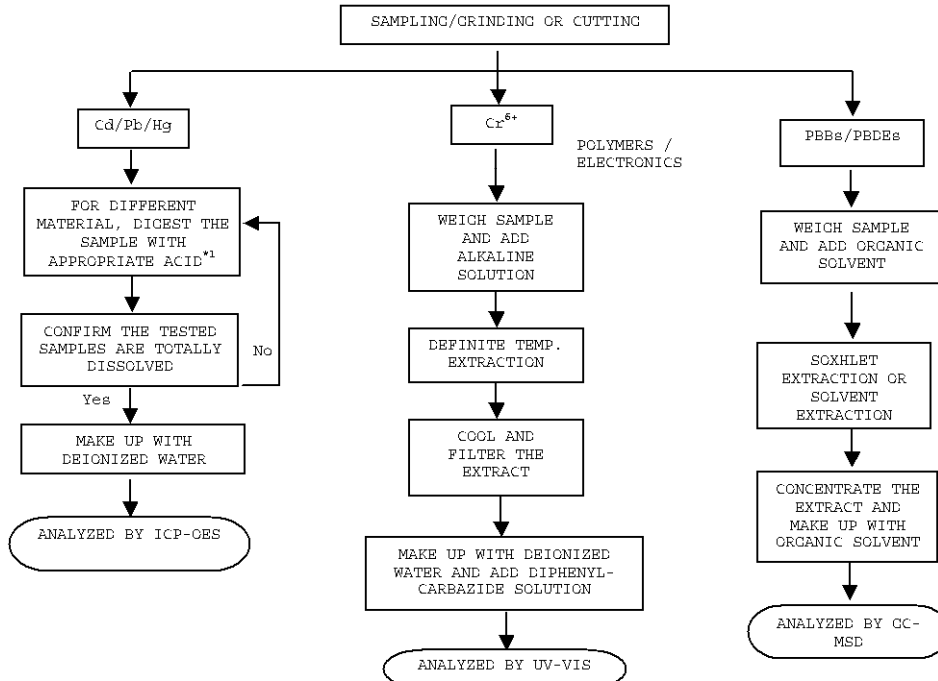
Intertek

TEST REPORT

NUMBER: WUXH00002721

TESTS CONDUCTED

(D) MEASUREMENT FLOWCHART:
 TEST FOR Cd/Pb/Hg/Cr (VI)/PBBs/PBDEs CONTENTS
 REFERENCE STANDARD: IEC 62321 EDITION 1.0: 2008



CHEMIST: INORGANIC (ANN LUO/FRED WANG/ALLY WAN)
 ORGANIC (JENNY XU/CHERRY SUN)

REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Annex 5: Analysis Result of Passivation Glass (Page 5 of 7)


TEST REPORT

NUMBER: WUXH00002721

TESTS CONDUCTED

(I) TEST RESULT SUMMARY :

HALOGEN CONTENT :

TESTING ITEM	RESULT (ppm)
FLUORINE (F) CONTENT	ND
CHLORINE (Cl) CONTENT	ND
BROMINE (Br) CONTENT	ND
IODINE (I) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION = mg/kg

ND = NOT DETECTED

DATE SAMPLE RECEIVE: AUG 02, 2010

TEST PERIOD: AUG 02, 2010 TO AUG 05, 2010

(II) TEST METHOD :

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
HALOGEN (F, Cl, Br, I) CONTENT	WITH REFERENCE TO IEC 61189-2:2006 BY COMBUSTION FLASK AND DETERMINED BY ION CHROMATOGRAPHY	50 ppm

REMARKS : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

 TO BE CONTINUED

PAGE 5 OF 7

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Annex 5: Analysis Result of Passivation Glass (Page 6 of 7)



TEST REPORT

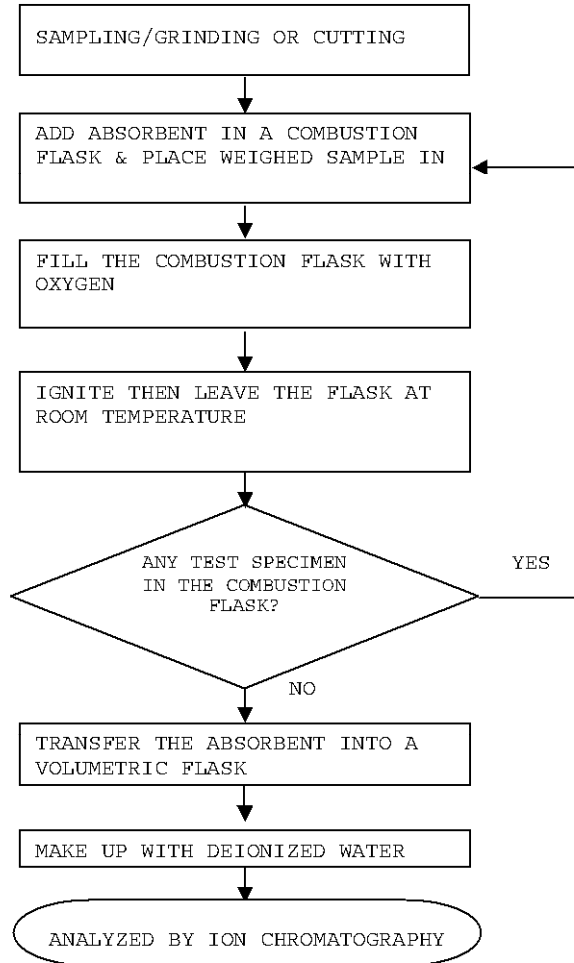
NUMBER: WUXH00002721

TESTS CONDUCTED

(III) MEASUREMENT FLOWCHART:

TEST FOR HALOGEN CONTENT

REFERENCE METHOD: IEC 61189-2 TEST 2C12



CHEMIST: FRED WANG/ ALLY WAN

TO BE CONTINUED

Annex 5: Analysis Result of Passivation Glass (Page 7 of 7)

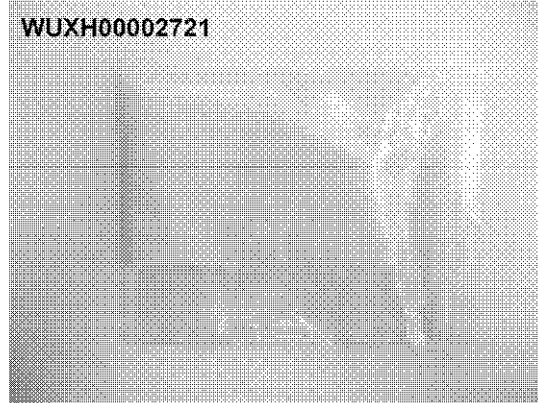


TEST REPORT

NUMBER: WUXH00002721

TESTS CONDUCTED

PHOTO



END OF REPORT

PAGE 7 OF 7

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No.8 Fubei Road, Xishan Economic Development Zone,
Wuxi 214101, Jiangsu, China
Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Annex 6: Analysis Result of Die Bonding Solder (Page 1 of 5)**Test Report**

No: 10190434(7)

Date: 26-Mar-10

Page 1 of 5

Heraeus Materials Singapore Pte Ltd
No. 2 Corporation Road, #06-15/16/17 Corporation Place, Singapore 618494

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

Sample Description : Pb Sn5Ag2.5 Solder Paste

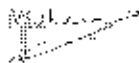
Sample Receiving Date : 18-Mar-10
Testing Period : 18-Mar-10 to 25-Mar-10

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Result(s) : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Y.C. Tham
Laboratory Manager

Test Location: 25 Ayer Rajah Crescent, #03-07, Singapore 139944

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25 Ayer Rajah Crescent #03-07 Singapore 139944 +65 6379 0111 +65 6777 2514 www.sgs.com

Member of SGS Group

Annex 6: Analysis Result of Die Bonding Solder (Page 2 of 5)



Test Report

No: 10190434(7)

Date: 26-Mar-10

Page 2 of 5

Test Result(s):

Sample Description : Pb Sn5Ag2.5 Solder Paste

Test Item(s):	Unit	Method	Results	MDL	RoHS Limit
Cadmium(Cd)	mg/kg	With reference to IEC62321, Ed 1:2008. Analysis was performed by ICP/AES	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC62321, Ed 1:2008. Analysis was performed by ICP/AES	934724'	2	1000
Mercury (Hg)	mg/kg	With reference to IEC62321, Ed 1:2008. Analysis was performed by ICP/AES	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	With reference to IEC62321, Ed 1:2008. Analysis was performed by UV/Vis Spectrometry	n.d.	2	1000
Sum of PBBs	mg/kg		n.d.	-	1000
Monobromobiphenyl	mg/kg		n.d.	5	-
Dibromobiphenyl	mg/kg		n.d.	5	-
Tribromobiphenyl	mg/kg		n.d.	5	-
Tetrabromobiphenyl	mg/kg		n.d.	5	-
Hexabromobiphenyl	mg/kg		n.d.	5	-
Pentabromobiphenyl	mg/kg		n.d.	5	-
Heptabromobiphenyl	mg/kg		n.d.	5	-
Octabromobiphenyl	mg/kg		n.d.	5	-
Nonabromobiphenyl	mg/kg		n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC62321, Ed 1:2008. Analysis was performed by GC/MS	n.d.	5	-
Sum of PBDEs	mg/kg		n.d.	-	1000
Monobromodiphenyl ether	mg/kg		n.d.	5	-
Dibromodiphenyl ether	mg/kg		n.d.	5	-
Tribromodiphenyl ether	mg/kg		n.d.	5	-
Tetrabromodiphenyl ether	mg/kg		n.d.	5	-
Pentabromodiphenyl ether	mg/kg		n.d.	5	-
Hexabromodiphenyl ether	mg/kg		n.d.	5	-
Heptabromodiphenyl ether	mg/kg		n.d.	5	-
Octabromodiphenyl ether	mg/kg		n.d.	5	-
Nonabromodiphenyl ether	mg/kg		n.d.	5	-
Decabromodiphenyl ether ##	mg/kg		n.d.	5	-

Test location: 25 Ayer Rajah Crescent, #07-05, Singapore 139944

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Annex 6: Analysis Result of Die Bonding Solder (Page 3 of 5)**Test Report**

No: 10190434(7)

Date: 26-Mar-10

Page 3 of 5

- 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) "-" = Not regulated
 - (6) "*" : Exceeds limit

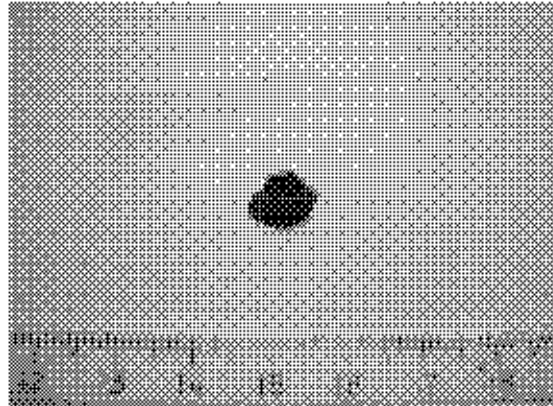
*Exemption: The received sample is exempted under directive 2002/95/EC Annex Article 7: lead in high melting temperature solder type solders (i.e. tin-lead solder alloys containing more than 85% of lead).

Remarks: Sample received was totally dissolved by preconditioning method.
Lab Analyst(s): Jay and Yaowen

Sample photo:

Sample Description : Pb Sn5Ag2.5 Solder Paste

SGS authenticates the photo on original report only



Test Location: 25 Ayer Rajah Crescent, #03-07, Singapore 139944

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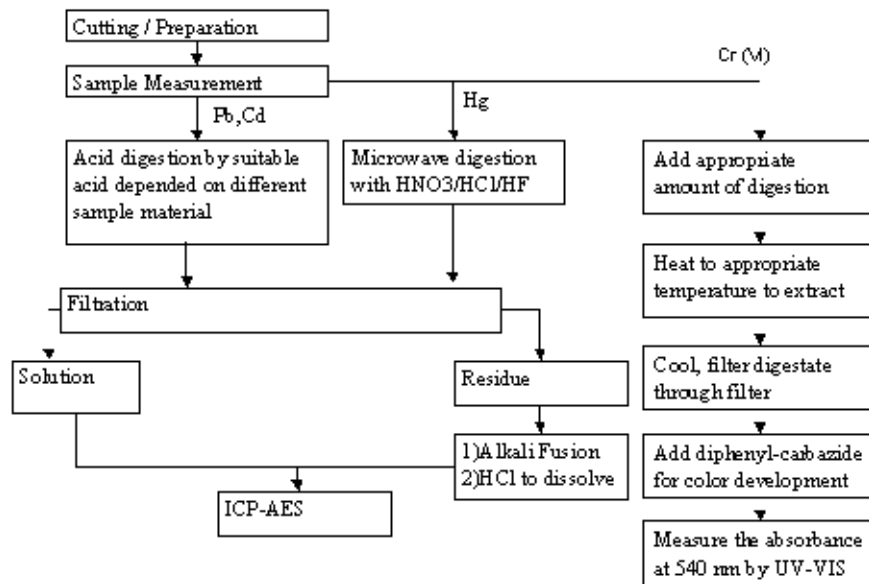
Annex 6: Analysis Result of Die Bonding Solder (Page 4 of 5)


Test Report

No: 10190434(7)

Date: 26-Mar-10

Page 4 of 5

Process Flow of IEC 62321 (Pb, Cd, Hg & Cr⁶⁺)


Test location: 26 Ayer Rajah Crescent, #07-07, Singapore 139944

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Annex 6: Analysis Result of Die Bonding Solder (Page 5 of 5)


Test Report

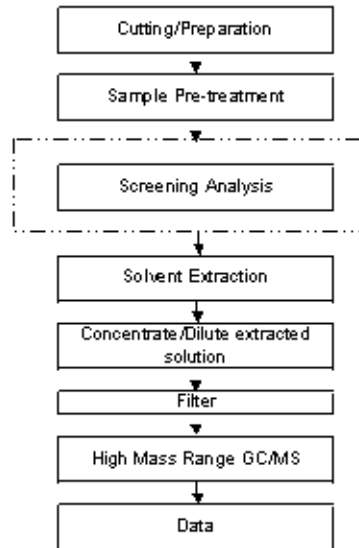
No: 10190434(7)

Date: 26-Mar-10

Page 5 of 5

Process Flow of PBBs and PBDEs by GC/MS (IEC 62321)

First Testing Process → Optional screen process Confirmation process



End of Report

Test location: 26 Ayer Rajah Crescent, A03-07, Singapore 139944

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Annex 7: Applicable RoHS exemptions

13.2.2003 EN Official Journal of the European Union L 37/19

DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 27 January 2003
on the restriction of the use of certain hazardous substances in electrical and electronic equipment

13.2.2003 EN Official Journal of

Article 4

Prevention

1. Member States shall ensure that, from 1 July 2006, new electrical and electronic equipment put on the market does not contain lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE). National measures restricting or prohibiting the use of these substances in electrical and electronic equipment which were adopted in line with Community legislation before the adoption of this Directive may be maintained until 1 July 2006.

to be protected and an overall strategy that in particular restricts the use of cadmium and stimulates research into substitutes should therefore be implemented. The Reso-

13.2.2003 EN Official Journal of the European Union L 37/23

2. Paragraph 1 shall not apply to the applications listed in the Annex.

ANNEX

Applications of lead, mercury, cadmium and hexavalent chromium, which are exempted from the requirements of Article 4(1)

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
2. Mercury in straight fluorescent lamps for general purposes not exceeding:

— halophosphate	10 mg
— triphosphate with normal lifetime	5 mg
— triphosphate with long lifetime	8 mg
3. Mercury in straight fluorescent lamps for special purposes.
4. Mercury in other lamps not specifically mentioned in this Annex.
5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
6. Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminium containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
7. — Lead in high melting temperature type solders (i.e. tin-lead solder alloys containing more than 85 % lead),
 - lead in solders for servers, storage and storage array systems (exemption granted until 2010),
 - lead in solders for network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunication,
 - lead in electronic ceramic parts (e.g. piezoelectronic devices).
8. Cadmium plating except for applications banned under Directive 91/338/EEC (*) amending Directive 76/769/EEC (†) relating to restrictions on the marketing and use of certain dangerous substances and preparations.