

Test Report

SENJU METAL INDUSTRY CO.,LTD TAIWAN BRANCH
 8F.-1, NO.80, MINZU 1ST RD., SANMIN DISTRICT,
 KAOHSIUNG CITY 807, TAIWAN (R.O.C.)

Report No. :KA/2006/72478A-01
 Date : 2006/8/3
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The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description : ECO SOLDER BALL S
 Style/Item No. : #7097(Sn/4Ag/0.5Cu)
 Sample Received : 2006/07/27
 Testing Date : 2006/07/27 TO 2006/8/3

Test Result(s) : - Please see the next page(s) -



Katherine Ho / Supervisor
 Signed for and on behalf of
 SGS Taiwan Limited

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TW3595112

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Test Result(s)

PART NAME NO.1 : ECO SOLDER BALL S

Test Item(s)	Unit	Method	MDL	Result
				No. 1
PBBs(Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	mg/Kg	With reference to USEPA3540C, Analyzed by GC/MS and screening via USEPA 3550C with GC/MS	5	N.D.
Dibromobiphenyl	mg/Kg		5	N.D.
Tribromobiphenyl	mg/Kg		5	N.D.
Tetrabromobiphenyl	mg/Kg		5	N.D.
Pentabromobiphenyl	mg/Kg		5	N.D.
Hexabromobiphenyl	mg/Kg		5	N.D.
Heptabromobiphenyl	mg/Kg		5	N.D.
Octabromobiphenyl	mg/Kg		5	N.D.
Nonabromobiphenyl	mg/Kg		5	N.D.
Decabromobiphenyl	mg/Kg		5	N.D.
Total PBBs(Polybrominated biphenyls)/Sum of above	mg/Kg		-	N.D.
PBDEs(Polybrominated biphenyl ethers)	---		---	---
Monobromobiphenyl ether	mg/Kg	With reference to USEPA3540C, Analyzed by GC/MS and screening via USEPA 3550C with GC/MS	5	N.D.
Dibromobiphenyl ether	mg/Kg		5	N.D.
Tribromobiphenyl ether	mg/Kg		5	N.D.
Tetrabromobiphenyl ether	mg/Kg		5	N.D.
Pentabromobiphenyl ether	mg/Kg		5	N.D.
Hexabromobiphenyl ether	mg/Kg		5	N.D.
Heptabromobiphenyl ether	mg/Kg		5	N.D.
Octabromobiphenyl ether	mg/Kg		5	N.D.
Nonabromobiphenyl ether	mg/Kg		5	N.D.
Decabromobiphenyl ether	mg/Kg		5	N.D.
Total PBDEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	mg/Kg		-	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 4)	mg/Kg		-	N.D.

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Test Item(s)	Unit	Method	MDL	Result
				No. 1
Chromium VI (Cr+6)	mg/Kg	With referece to US EPA 3060A. Analyzed by UV-VIS (US EPA 7196A)	2	N.D.
Cadmium (Cd)	mg/Kg	With reference to EN 1122; method B:2001. Analyzed by ICP-AES.	2	N.D.
Mercury (Hg)	mg/Kg	With reference to US EPA 3052. Analyzed by ICP-AES.	2	N.D.
Lead (Pb)	mg/Kg	With reference to US EPA 3050B. Analyzed by ICP-AES.	2	37.4

- NOTE: (1) N.D. = Not Detected (<MDL)
 (2) mg/Kg = ppm, 0.1% = 1000 ppm(mg/Kg), 0.0005% = 5
 (3) MDL = Method Detection Limit
 (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
 (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
 (6) " - " = Not Regulation
 (7) " --- " = Not Applicable
 (8) Sample was totally digested for Pb, Cd, Hg and totally extracted for Cr+6 and PBBs/PBDEs.

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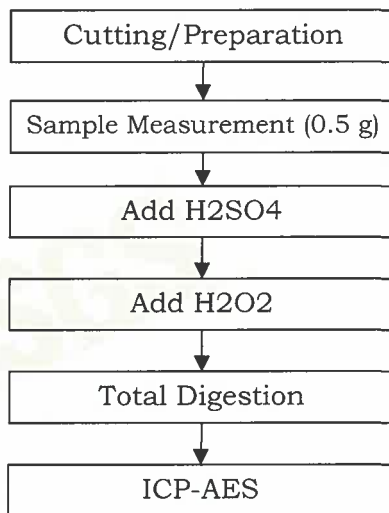
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Per requirements of SONY QAR-05-002:

- 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: George Huang

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



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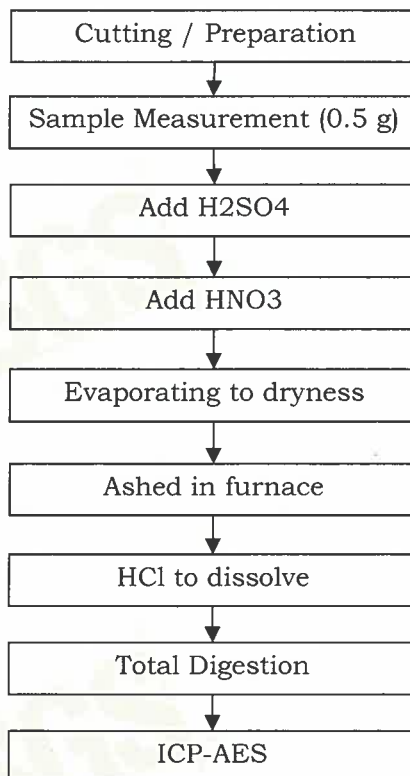
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Per requirements of SONY QAR-05-002:

- 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: George Huang

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



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** End of Report **

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