

POONGSAN CORPORATION

94 Sanam-ro, Onsan-eup Ulju-gun, Ulsan Korea

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

SGS File No. : AYGA25-00317
Product Name : C64750-Tin Plated

Item No./Part No. : P26

STINGS

Client Reference Data : PMC26

Received Date : 2025. 01. 08

Test Period : 2025. 01. 08 to 2025. 01. 23

Test Performed : Based on the performed testes on selected part of submitted samples, the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB),

Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl

Issued Date: 2025. 01. 23

Page 1 of 8

phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply

With the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Report Comments : By the applicant's request, item No.s/part No.s & client reference information are stated/added on

report.

Test Results : For further details, please refer to following page(s)

Monet Jeong

Monet Jeong

Technical Manager / SGS Korea Co., Ltd

This test report is limited to the samples and sample names provided by the client and does not guarantee the quality of all the client's products. It shall not be used for public relation, advertisement, lawsuit and shall not be used by excepts from it. This test report can be checked through the http://irohs.kr.sqs.com/checkreport/main. This test report is not related to KS Q ISO/IEC 17025 and Korea Laboratory Accreditation Scheme.

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Sample No. : AYGA25-00317.001
Sample Description : C64750-Tin Plated

Item No./Part No. : P26
Materials : N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321-5 : 2013, by ICP-OES	5	14.8
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 : 2013+AMD1:2017CSV, by ICP-OES	2	N.D.
Hexavalent Chromium (Cr VI)++	μg/cm²	With reference to IEC 62321-7-1 : 2015, by UV-Vis	0.1	N.D.

Issued Date: 2025. 01. 23

Page 2 of 8

Total Metals

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Test Items	Unit	Test Method	MDL	Results
Arsenic (As)	mg/kg	With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES	10	N.D.
Beryllium (Be)	mg/kg	With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES	5	N.D.
Antimony (Sb)	mg/kg	With reference to EPA 3052 : 1996, EPA 6010D : 2018, by ICP-OES	10	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.

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Sample No. : AYGA25-00317.001
Sample Description : C64750-Tin Plated

Item No./Part No. : P26
Materials : N/A

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6 : 2015, by GC-MS	5	N.D.

Phthalates

Test Items	Unit	Test Method	MDL	Results
Di-isobutyl phthalate (DIBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	N.D.
Di-butyl phthalate (DBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	N.D.
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to IEC 62321-8: 2017, by GC-MS	50	N.D.

PCBs & PCTs

Test Items	Unit	Test Method	MDL	Results
Polychlorinated Biphenyls (PCBs)	mg/kg	With reference to US EPA 8082,(US EPA 3550C),	3	N.D.
		by GC/MS		

PFAS (Per-and polyfluoroalkyl substances)

Test Items	Unit	Test Method	MDL	Results
Perfluorootanoic acid (PFOA)	μg/kg	with reference to EN 17681-1:2022, HPLC/MS/MS	10	N.D.
Perfluorooctanesulfonic Acid (PFOS)	μg/kg	with reference to EN 17681-1:2022, HPLC/MS/MS	10	N.D.

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Issued Date: 2025. 01. 23

Page 3 of 8



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

- (2) mg/kg = ppm, ug/kg = ppb, mg/L = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) Negative = Undetectable / Positive = Detectable



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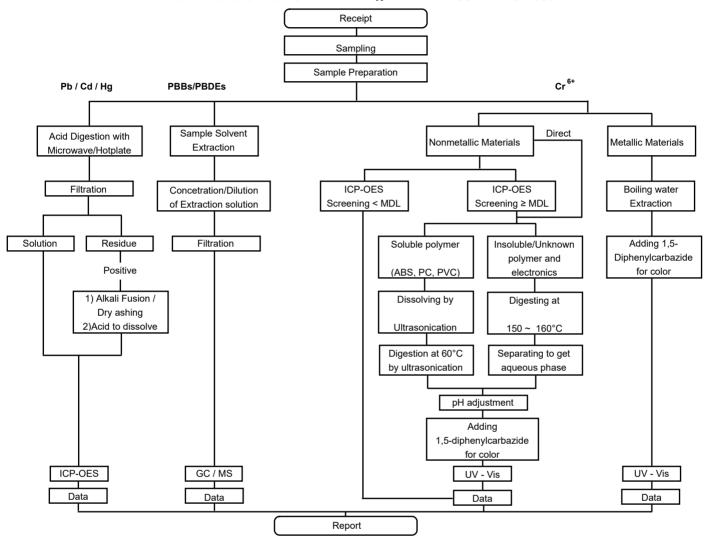
Page 4 of 8



Page 5 of 8

Flow Chart for RoHS Pb / Cd / Hg / Cr⁶⁺/ PBBs&PBDEs Test

Issued Date: 2025. 01. 23



The samples were dissolved totally at the acid digestion step of the above flow chart for Cd, Pb, Hg.

Technician: Aubrey Kim, Jieun Yoo, Dongoh kim

Supervisor: Monet Jeong

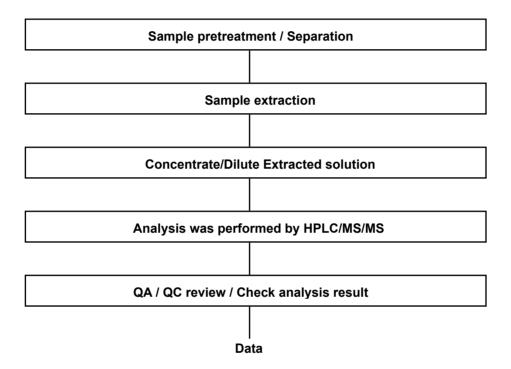
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Page 6 of 8

Flow Chart for PFOS/PFOA Test

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Technician : Moonju Kim Supervisor: Joice Lee

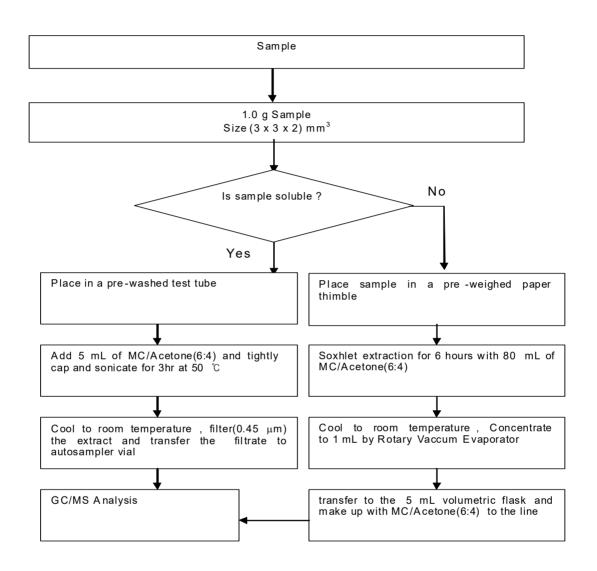
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Page 7 of 8

PCBs,PCTs,PCNs Flow Chart

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Technician : Jinhee Kim Supervisor: Jieun Lee

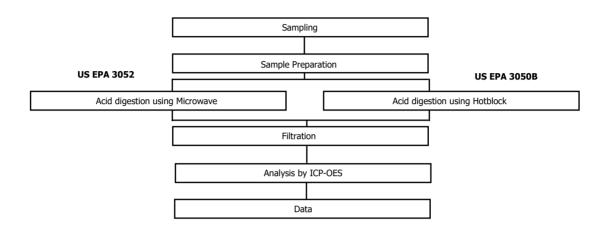
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Page 8 of 8

Flow Chart for Heavy metal

Issued Date: 2025. 01. 23



Major Inorganic
Heavy Metals

Antimony(Sb) , Beryllium(Be) , Phosphorus(P) , Arsenic(As) etc.

Technician : JunHyuk Choi Supervisor: Heejin Kim

*** End of Report ***

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