

Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 1 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PL0 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : ADVANCED ASSEMBLY MATERIALS(M) SDN BHD
Sample Name : Ag PLATING LAYER

=====
Sample Receiving Date : 09-May-2024
Testing Period : 09-May-2024 to 20-May-2024

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.


Ray Chang, Ph.D./Department Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory-Kaohsiung



PIN CODE: 755ED54D

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Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 2 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PL0 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Test Part Description

No.1 : PLATING LAYER OF SILVER COLORED METAL

No.2 : COPPER/SILVER COLORED METAL (INCLUDING THE PLATING LAYER)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result		Limit
				No.1	No.2	
Cadmium (Cd) (CAS No.: 7440-43-9)	IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.	mg/kg	2	n.d.	---	100
Lead (Pb) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	---	1000
Mercury (Hg) (CAS No.: 7439-97-6)		mg/kg	2	n.d.	---	1000
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	µg/cm ²	0.1	n.d.	---	-
Monobromobiphenyl	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	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.	-
Sum of PBBs		mg/kg	-	---	n.d.	1000
Monobromodiphenyl ether		mg/kg	5	---	n.d.	-
Dibromodiphenyl ether		mg/kg	5	---	n.d.	-
Tribromodiphenyl ether		mg/kg	5	---	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	---	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	---	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	---	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	---	n.d.	-
Octabromodiphenyl ether		mg/kg	5	---	n.d.	-
Nonabromodiphenyl ether	mg/kg	5	---	n.d.	-	
Decabromodiphenyl ether	mg/kg	5	---	n.d.	-	
Sum of PBDEs	mg/kg	-	---	n.d.	1000	

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Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 3 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PL0 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Test Item(s)	Method	Unit	MDL	Result		Limit
				No.1	No.2	
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	-
Antimony trioxide (Sb ₂ O ₃) (CAS No.: 1309-64-4)	Calculated from the result of Antimony.	mg/kg	2▲	---	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	-
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	n.d.	-
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	---	n.d.	-
Polychlorinated naphthalene (PCNs)		mg/kg	5	---	n.d.	-
Polychlorinated terphenyls (PCTs)		mg/kg	0.5	---	n.d.	-
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to ISO 18219-1: 2021, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	-
Medium Chain Chlorinated Paraffins(C14-C17) (MCCP) (CAS No.: 85535-85-9)	With reference to ISO 18219-2: 2021, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	-
Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	With reference to RSTS-E&E-121, analysis was performed by LC/MS.	mg/kg	10	---	n.d.	-
Bisphenol A (CAS No.: 80-05-7)	With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.	mg/kg	1	---	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	---	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.	**	-	---	Negative	-

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Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 4 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Test Item(s)	Method	Unit	MDL	Result		Limit
				No.1	No.2	
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	---	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)		mg/kg	50	---	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)		mg/kg	50	---	n.d.	-
Iodine (I) (CAS No.: 14362-44-8)		mg/kg	50	---	n.d.	-
Tributyl tin (TBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	---	n.d.	-
Triphenyl tin (TPT)		mg/kg	0.03	---	n.d.	-
Dibutyl tin (DBT)		mg/kg	0.03	---	n.d.	-
Diethyl tin (DOT)		mg/kg	0.03	---	n.d.	-
Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9)	Calculated from the result of Tributyl Tin (TBT).	mg/kg	0.03 ▲	---	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	---	n.d.	-
Perfluorooctanoic acid (PFOA) and it's salt (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	---	n.d.	-
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	1000
Butyl benzyl phthalate (BBP)		mg/kg	50	---	n.d.	1000
Diisobutyl phthalate (DIBP)		mg/kg	50	---	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	---	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	---	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	---	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	---	n.d.	-
Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)		mg/kg	50	---	n.d.	-
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	---	n.d.	-
Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	---	n.d.	-
N-pentyl iso-pentyl phthalate (NPIPP) (CAS No.: 776297-69-9)		mg/kg	50	---	n.d.	-

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Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 5 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Test Item(s)	Method	Unit	MDL	Result		Limit
				No.1	No.2	
Diisopentyl phthalate (DIPP) (CAS No.: 605-50-5)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	-
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	-
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	---	n.d.	-
Phosphorus (P) (CAS No.: 7723-14-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	---	4.28	-

Note :

1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected (Less than MDL)
4. "-" = Not Regulated
5. "---" = Not Conducted
6. **= Qualitative analysis (No Unit)
7. Negative = Undetectable ; Positive = Detectable
8. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.
9. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	A	F
Antimony trioxide (Sb ₂ O ₃)	Antimony	1.1971
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table : https://eecloud.sgs.com/Region_TW/DocDownload.aspx?name=Others

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ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

10. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

PFAS Remark :

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

Group Name	Substance Name	CAS No.
PFOS, its salts & derivatives	Perfluorooctane sulfonates (PFOS)	1763-23-1
	Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
	N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-	91036-71-4
	Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6
PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1
	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanoate (PFOA-Ag)	335-93-3
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6

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Test Report

No.: EKR24500387

Date: 21-May-2024

Page: 8 of 21

ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

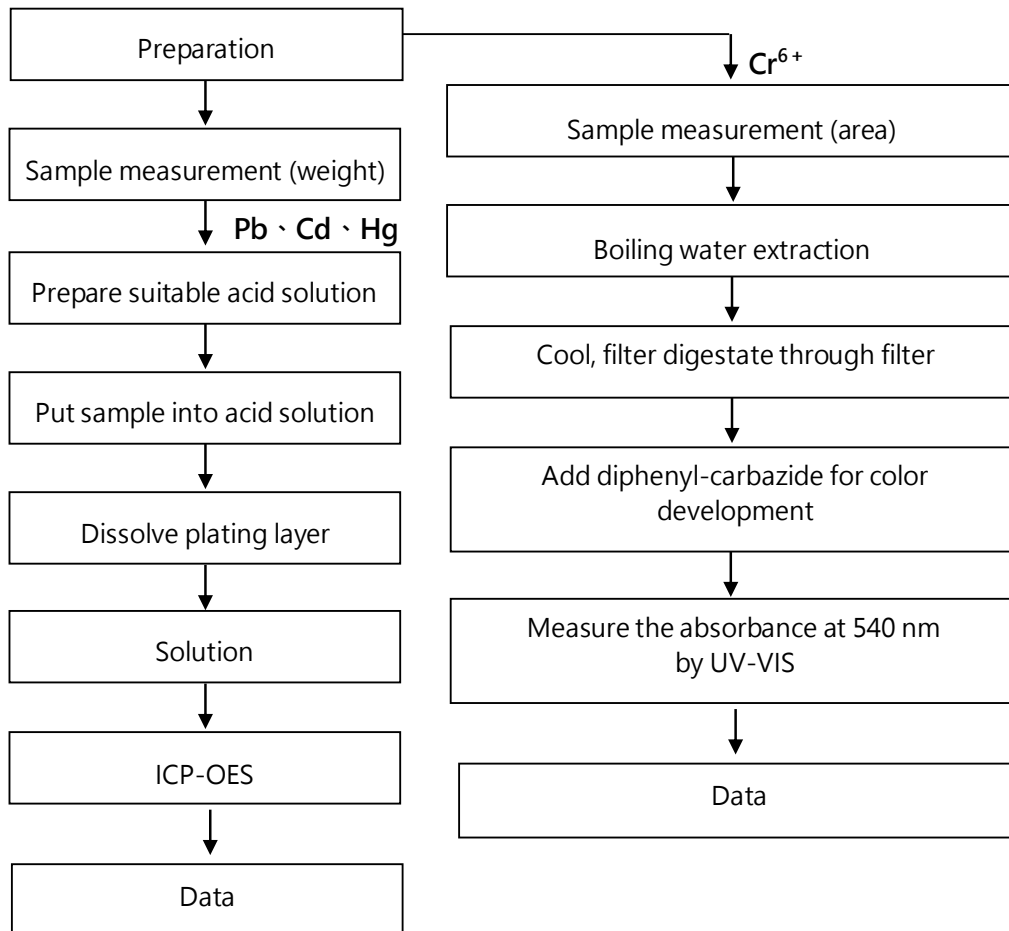
PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Group Name	Substance Name	CAS No.
PFOA, its salts & derivatives	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3 ⁺))	68141-02-6
	Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9

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Flow Chart of Stripping method for metal analysis

The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)

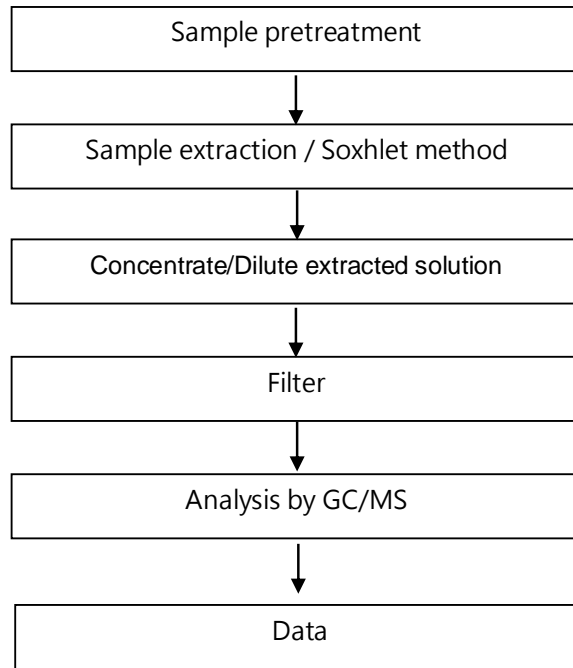


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ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

PBB/PBDE analytical FLOW CHART



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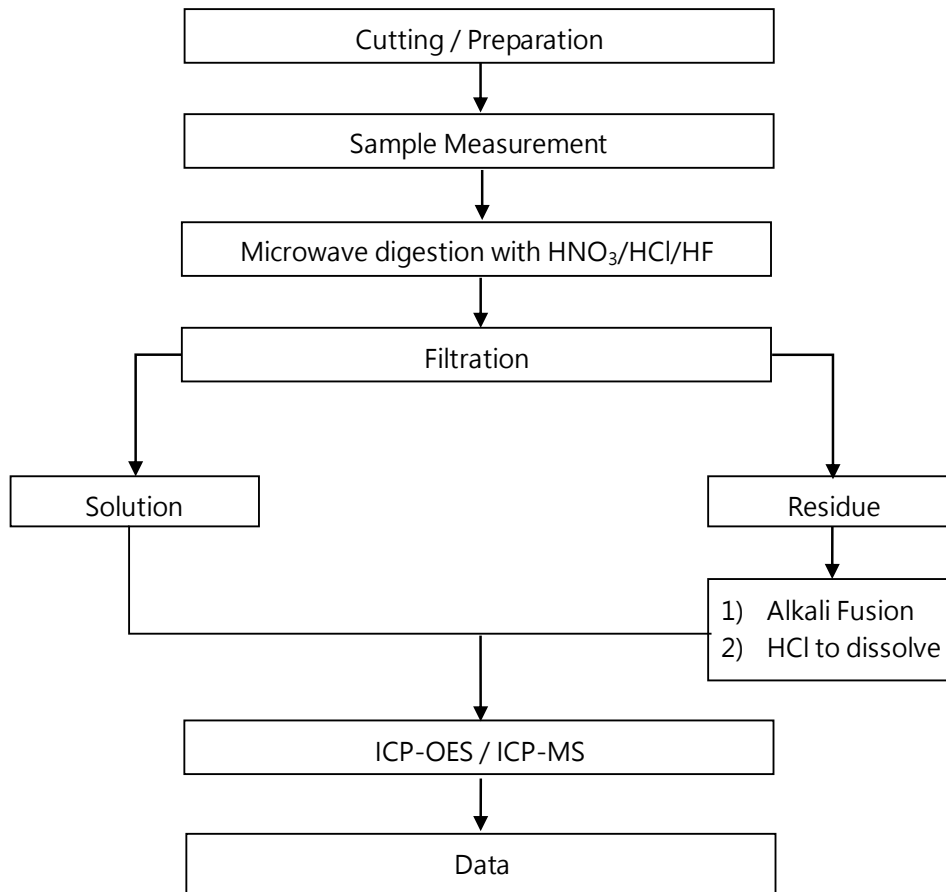
ADVANCED ASSEMBLY MATERIALS(M) SDN BHD

PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Analytical flow chart of Elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method : US EPA 3051 · US EPA 3052】



* US EPA 3051 method does not add HF.

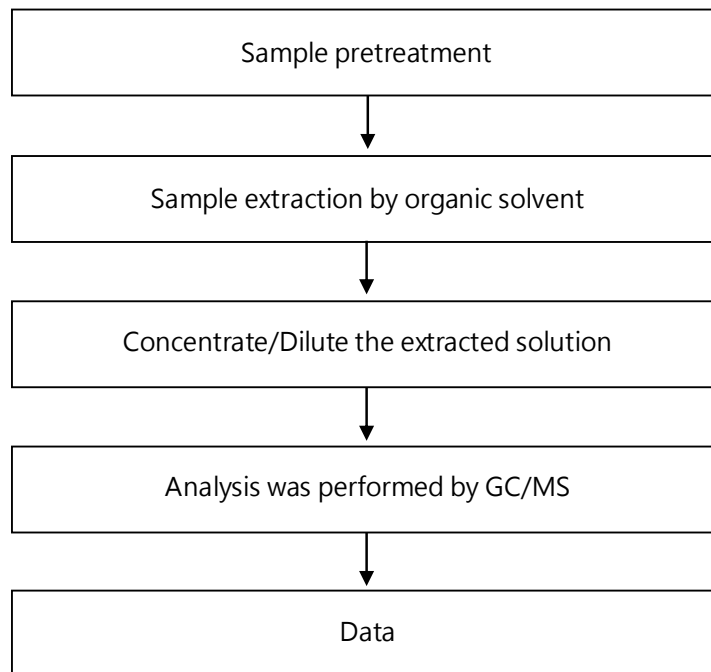
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PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT

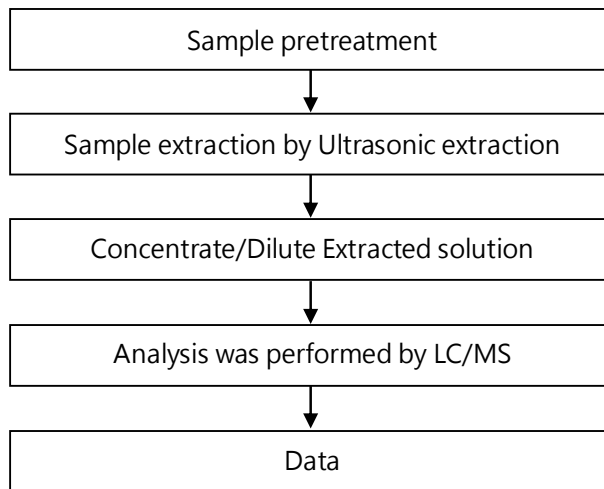


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PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

TBBP-A analytical flow chart

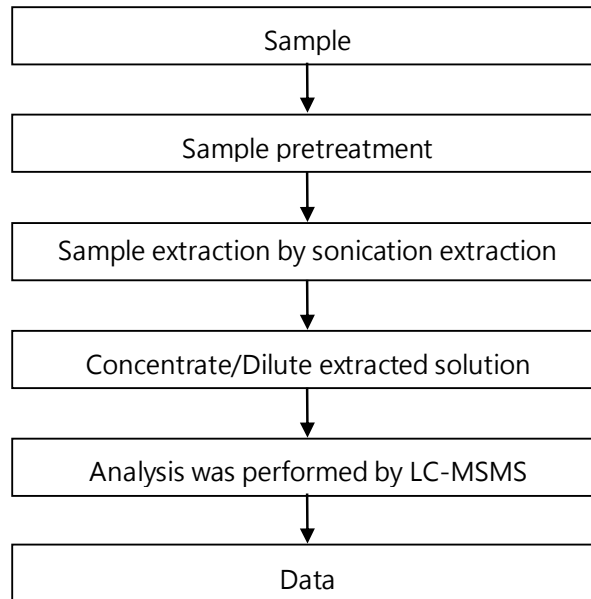


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BPA analytical flow chart

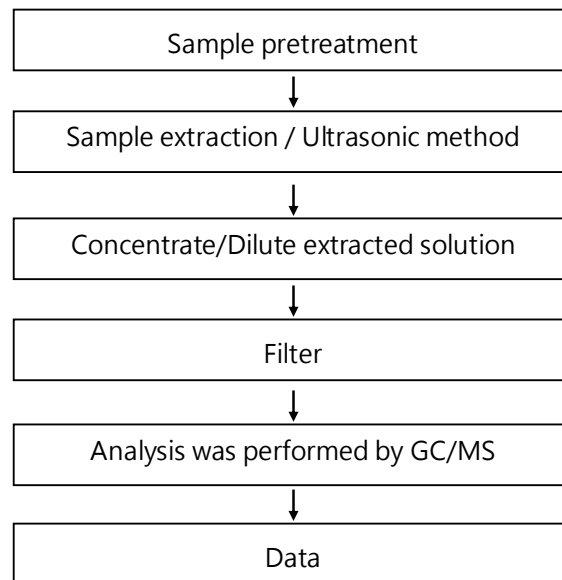


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Analytical flow chart - HBCDD

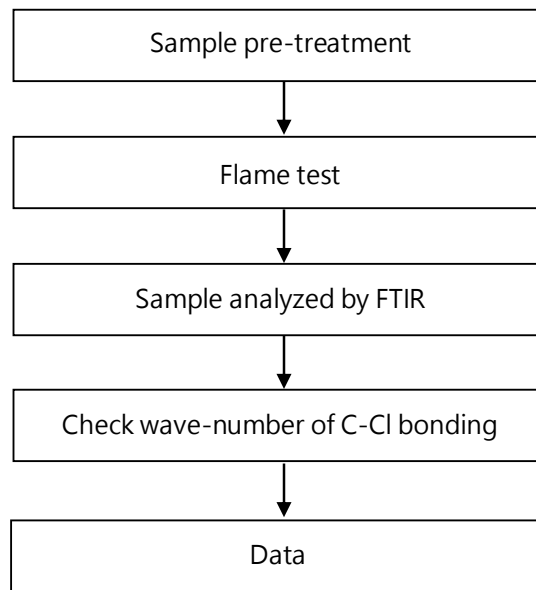


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Analysis flow chart - PVC

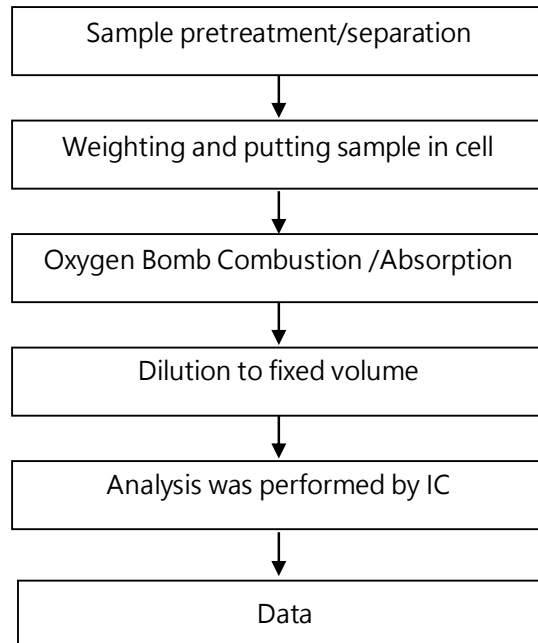


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Analytical flow chart of Halogen

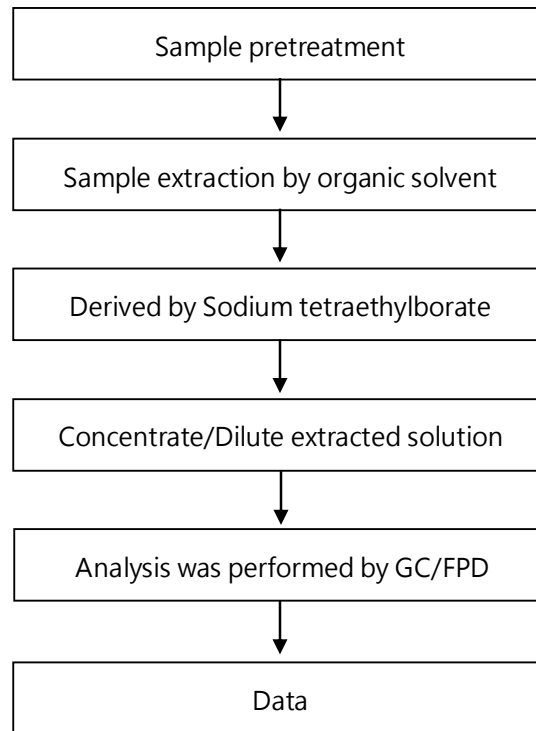


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Analytical flow chart - Organic-Tin

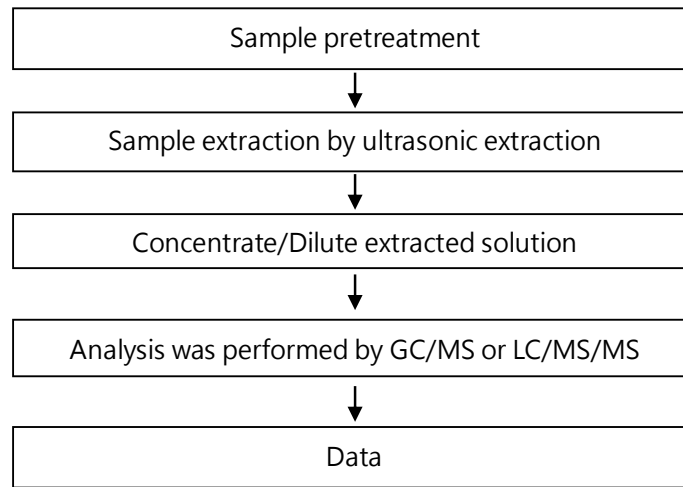


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PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



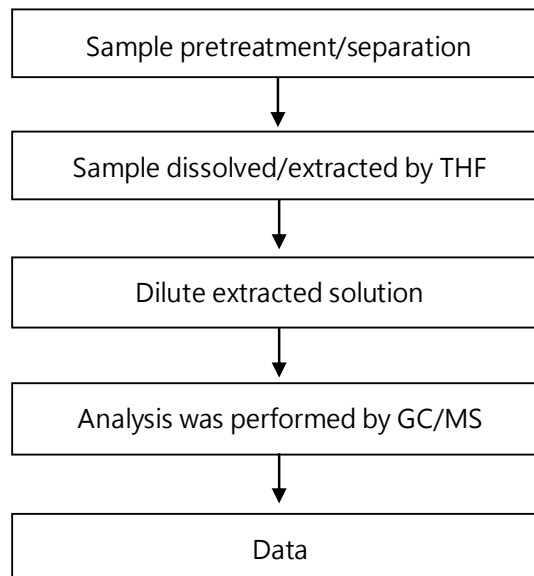
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PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

Analytical flow chart of phthalate content

【 Test method: IEC 62321-8 】



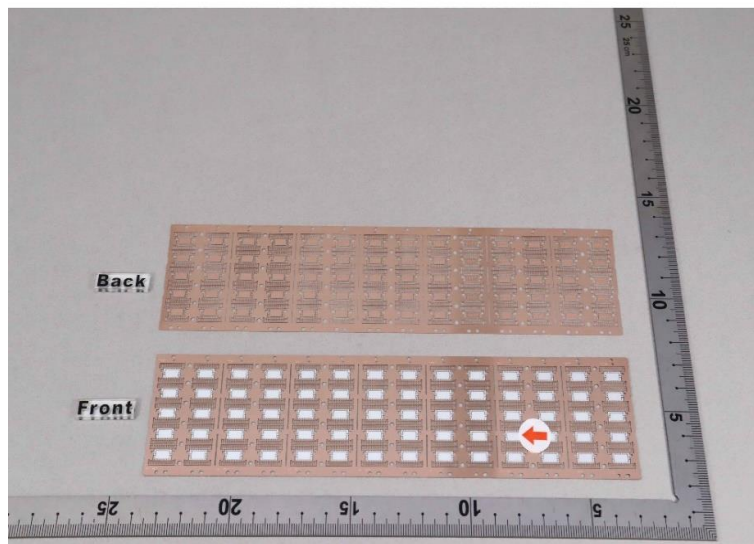
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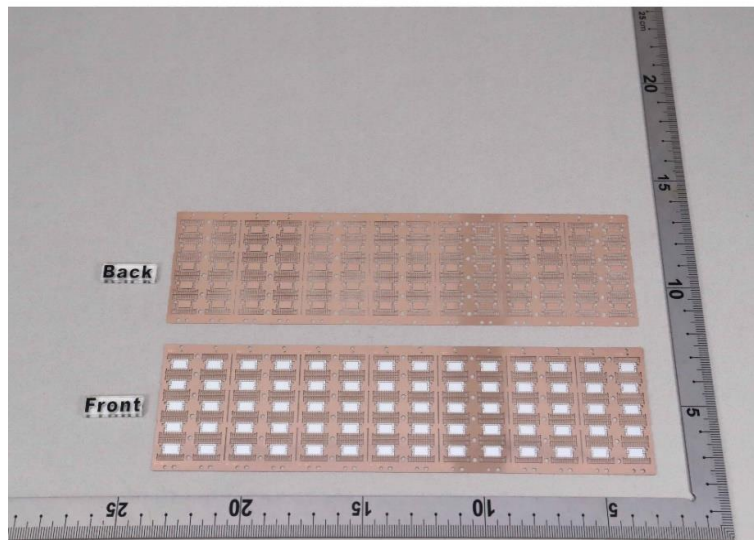
PLO 534 BLOK 1 & BLOK 2, JALAN KELULI 3, KAWASAN PERINDUSTRIAN PASIR GUDANG, 81700 PASIR GUDANG, JOHOR

* The tested sample / part is marked by an arrow if it's shown on the photo. *

EKR24500387 NO.1



EKR24500387 NO.2



** End of Report **

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