

Test Report No.: ETR23C02702 Date: 21-Dec-2023 Page: 1 of 17

TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

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

Sample Submitted By : TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV.

Sample Name : ELEPHANE R-970A

Other Info. : ELEPHANE R-970A (EXCLUDING THE RELEASE FILM)

Sample Receiving Date : 15-Dec-2023

Testing Period : 15-Dec-2023 to 21-Dec-2023

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

cample(s)

(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Troy Chang / Department Malager Signed for and on behalf of Alwah SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: 740C08A0

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Test Part Description

No.1 : TRANSPARENT BROWN FILM (EXCLUDING THE RELEASE FILM)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
1 (71)	analysis was performed by ICP-OES.			
Lead (Pb)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.
	AMD1: 2017, analysis was performed			
	by ICP-OES.			
Hexavalent Chromium Cr(VI)	With reference to IEC 62321-7-2: 2017,	mg/kg	8	n.d.
	analysis was performed by UV-VIS.			
Monobromobiphenyl		mg/kg	5	n.d.
Dibromobiphenyl		mg/kg	5	n.d.
Tribromobiphenyl		mg/kg	5	n.d.
Tetrabromobiphenyl		mg/kg	5	n.d.
Pentabromobiphenyl	With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
Hexabromobiphenyl	analysis was performed by GC/MS.	mg/kg	5	n.d.
Heptabromobiphenyl	undivisis was performed by Ge/1415.	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.
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	With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
Hexabromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.
Heptabromodiphenyl ether	undivisis was periorifica by Ge/1015.	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.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Diisobutyl phthalate (DIBP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
	analysis was performed by GC/MS.			
Diisodecyl phthalate (DIDP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
No.: 26761-40-0, 68515-49-1)	analysis was performed by GC/MS.			
Diisononyl phthalate (DINP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
No.: 28553-12-0, 68515-48-0)	analysis was performed by GC/MS.			
Di-n-octyl phthalate (DNOP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
No.: 117-84-0)	analysis was performed by GC/MS.			
Di-n-pentyl phthalate (DNPP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
No.: 131-18-0)	analysis was performed by GC/MS.			
Di-n-hexyl phthalate (DNHP) (CAS	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
No.: 84-75-3)	analysis was performed by GC/MS.			
Bis(2-methoxyethyl) phthalate	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
(DMEP) (CAS No.: 117-82-8)	analysis was performed by GC/MS.			
1,2-Benzenedicarboxylic acid, di-C7-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
11-branched and linear alkyl esters	analysis was performed by GC/MS.			
(DHNUP) (CAS No.: 68515-42-4)				
1,2-Benzenedicarboxylic acid, di-C6-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.
8-branched alkyl esters, C7-rich	analysis was performed by GC/MS.			
(DIHP) (CAS No.: 71888-89-6)				
Hexabromocyclododecane (HBCDD)	With reference to IEC 62321: 2008,	mg/kg	5	n.d.
and all major diastereoisomers	analysis was performed by GC/MS.			
identified (α - HBCDD, β - HBCDD, γ -				
HBCDD) (CAS No.: 25637-99-4,				
3194-55-6 (134237-51-7, 134237-				
50-6, 134237-52-8))				

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
	analysis was performed by IC.			
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
-	analysis was performed by ICP-OES.			
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007,	mg/kg	0.5	n.d.
	analysis was performed by GC/MS.			
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007,	mg/kg	5	n.d.
	analysis was performed by GC/MS.			
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007,	mg/kg	0.5	n.d.
	analysis was performed by GC/MS.			
Short Chain Chlorinated	With reference to ISO 18219-1: 2021,	mg/kg	50	n.d.
Paraffins(C10-C13) (SCCP) (CAS No.:	analysis was performed by GC/MS.			
85535-84-8)				
Triphenyl tin (TPT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Tributyl tin (TBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Dioctyl tin (DOT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
	analysis was performed by GC/FPD.			
Dibutyl tin (DBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.
•	analysis was performed by GC/FPD.			
Bis(tributyltin) oxide (TBTO) (CAS	Calculated from the result of Tributyl	mg/kg	0.03 ▲	n.d.
No.: 56-35-9)	Tin (TBT).			
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2021,	**	-	Negative
	analysis was performed by FT-IR and			_
	Flame Test.			
			•	

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Test Item(s)	Method	Unit	MDL	Result
				No.1
PFOS and its salts (CAS No.: 1763-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.
23-1 and its salts)	analysis was performed by LC/MS/MS.			
PFOA and its salts (CAS No.: 335-67-	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.
1 and its salts)	analysis was performed by LC/MS/MS.			

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. **= Qualitative analysis (No Unit)

6. Negative = Undetectable; Positive = Detectable

7. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
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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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	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
PFOS, its salts & derivatives	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8
	Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS- $N(C_2H_5)_4$)	56773-42-3
	N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane- 1-sulfonate (PFOS-DDA)	251099-16-8
	Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	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- heptadecafluorooctanesulfonate	71463-74-6
	PFOA	335-67-1
PFOA, its salts & derivatives	Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	Silver perfluorooctanote (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

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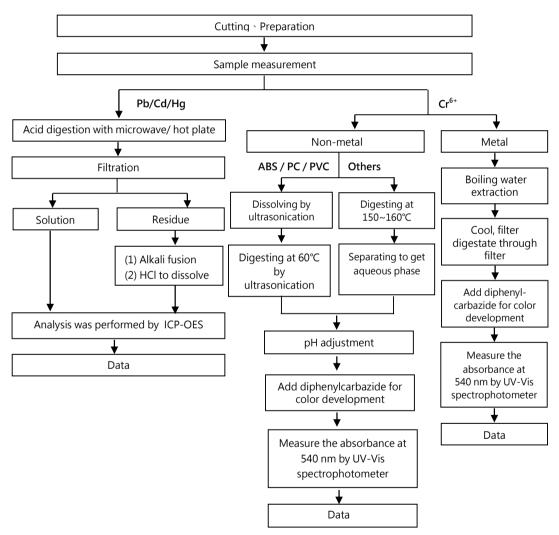
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TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

Analytical flow chart of heavy metal

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

(Cr⁶⁺ test method excluded)



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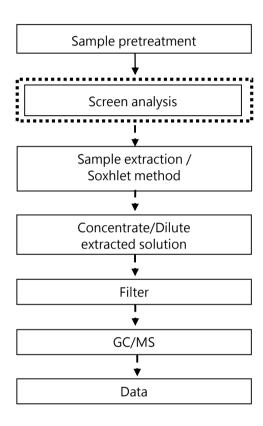


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TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

Analytical flow chart - PBBs / PBDEs

First testing process _____
Optional screen process ____
Confirmation process ____



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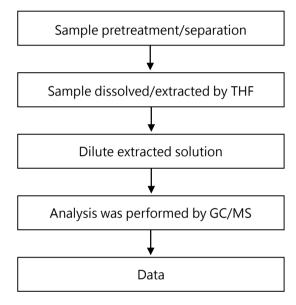


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Analytical flow chart - Phthalate

【Test method: IEC 62321-8】



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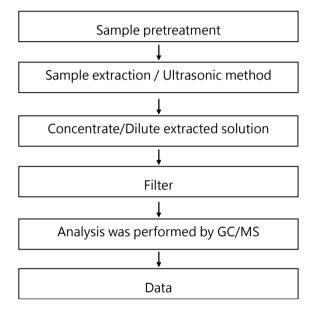
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Analytical flow chart - HBCDD



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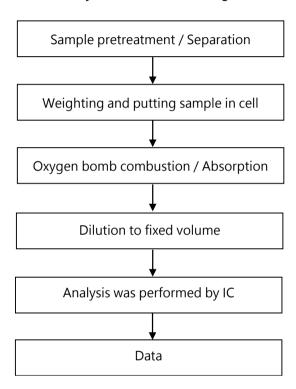
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Analytical flow chart - Halogen



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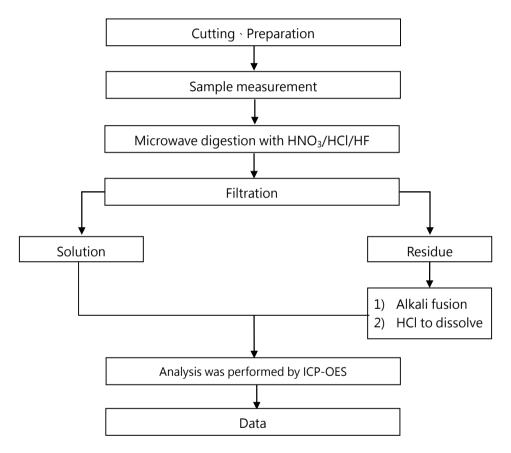
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TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

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 3051A \ US EPA 3052】



^{*} US EPA 3051A method does not add HF.

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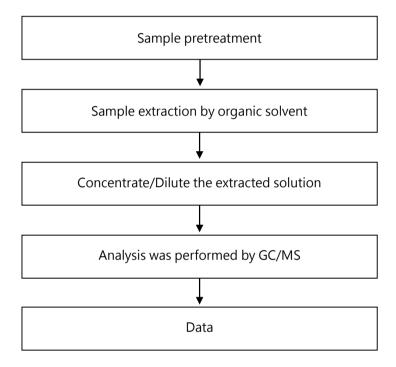


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Analytical flow chart

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



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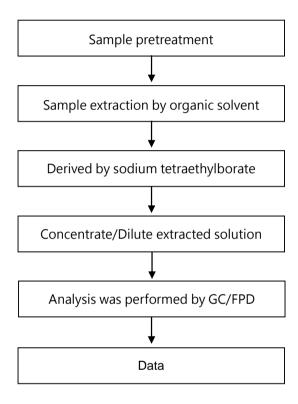
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No.: ETR23C02702 Date: 21-Dec-2023

TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

Analytical flow chart - Organic-Tin



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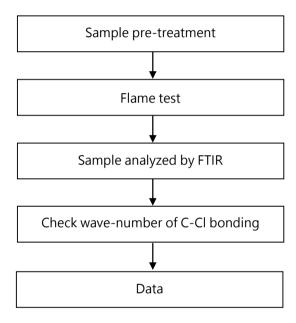
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TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

Analysis flow chart - PVC



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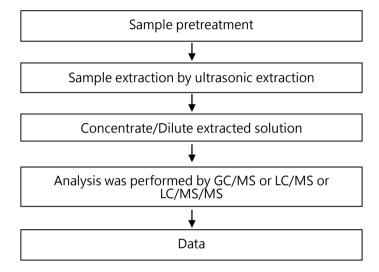
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TOMOEGAWA CORPORATION ELECTRONIC MATERIALS DIV. 3-6 IRIE 1-CHOME, SHIMIZU-KU, SHIZUOKA CITY, 424-0831 JAPAN

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



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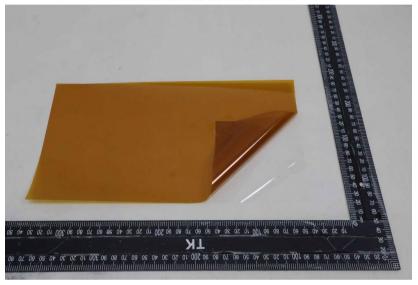


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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR23C02702



** End of Report **

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