

Survey Report

No. : CS/2010/30039B Date : 2010/04/06

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ZYWYN CORPORATION

1270, OAKMEAD PARKWAY, SUITE 201, SUNNYVALE, CA 94085, U.S.A.



The following test reports/information were submitted and identified by the client as :

Sample Description : TSSOP-EXPOSED FAMILY
Style/Item No. : ZD831LEY, ZD832LEY, ZD850LEY, ZD1670LEY, ZD1680LEY
Testing Period : 2010/03/24 TO 2010/03/31

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

* This report is combined with reports of CE/2009/71467, CE/2009/71470 and CE/2009/71471 *

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME NO.1 : BODY (CE/2009/71467 NO.1)
 PART NAME NO.2 : PLATING LAYER OF SILVER COLORED METAL PIN (CE/2009/71467)
 PART NAME NO.3 : BODY (CE/2009/71470)
 PART NAME NO.4 : BODY (CE/2009/71471)

Test Item(s):	Unit	Method	MDL	Result			
				NO.1	NO.2	NO.3	NO.4
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	n.d.	---	---
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	12	---	---
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	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.	---	---	---
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 7)	0.02mg/kg with 50 cm ² surface area	---	Negative	---	---
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.
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	---	---	---	n.d.

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Test Item(s):	Unit	Method	MDL	Result					
				NO.1	NO.2	NO.3	NO.4		
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	---	---	---		
Monobromobiphenyl			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			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	---	---	n.d.	---		
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	---	---	n.d.	---		
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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Note : 1. mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

2. n.d.= not detected = below Reporting Limit

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

6. ** = Qualitative analysis (No Unit)

7. 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.

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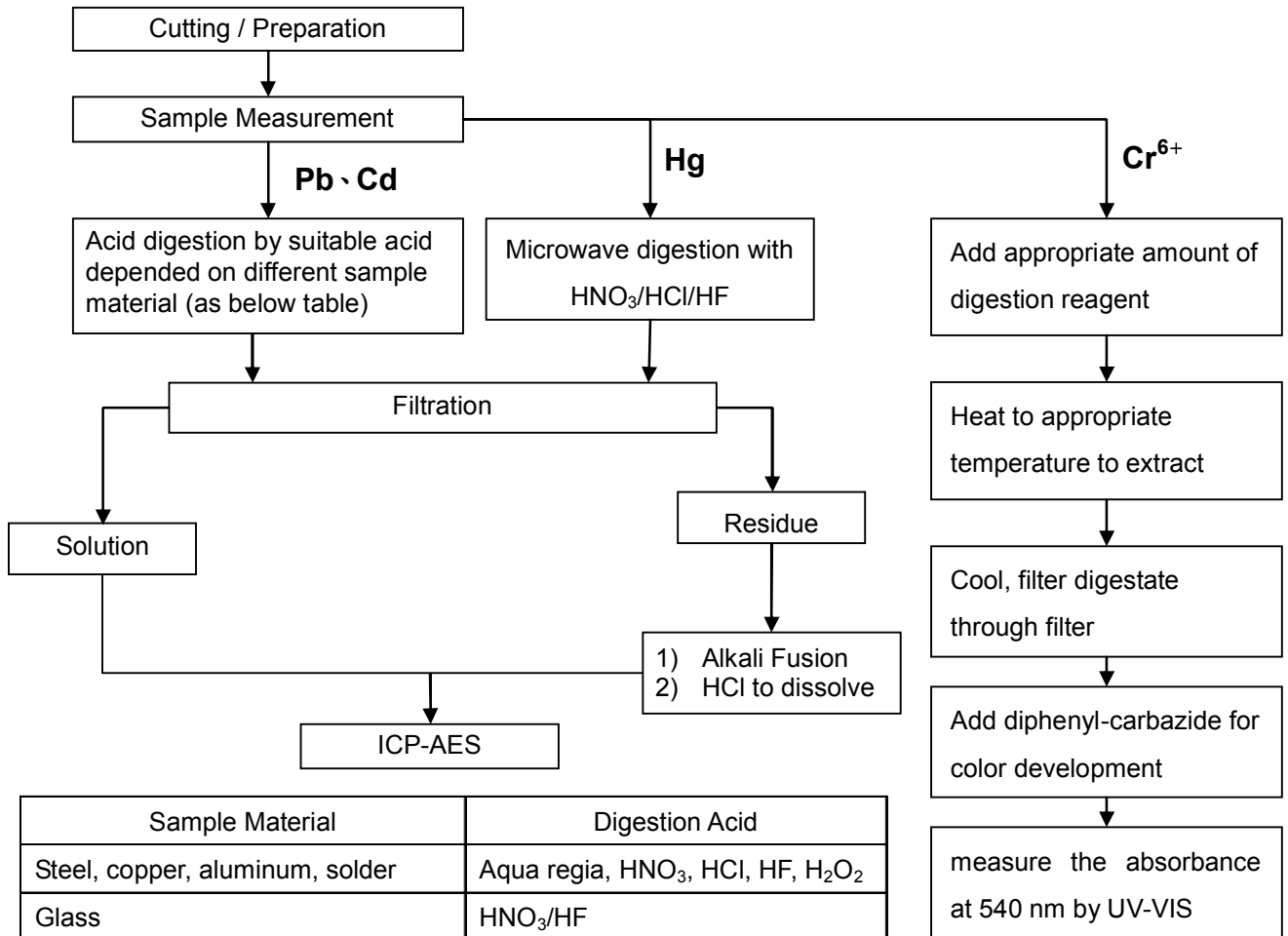
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NO.1

- 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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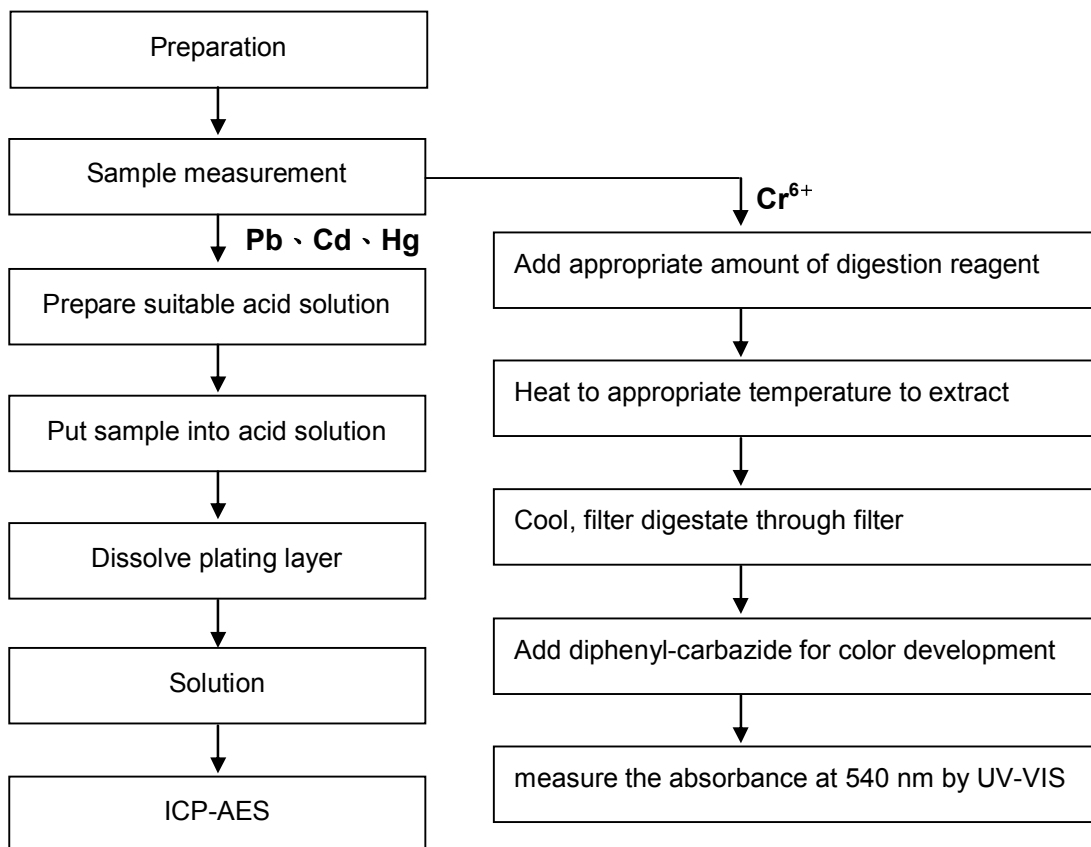
1270, OAKMEAD PARKWAY, SUITE 201, SUNNYVALE, CA 94085, U.S.A.



NO.2

- 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

Flow Chart of Stripping method for metal analysis



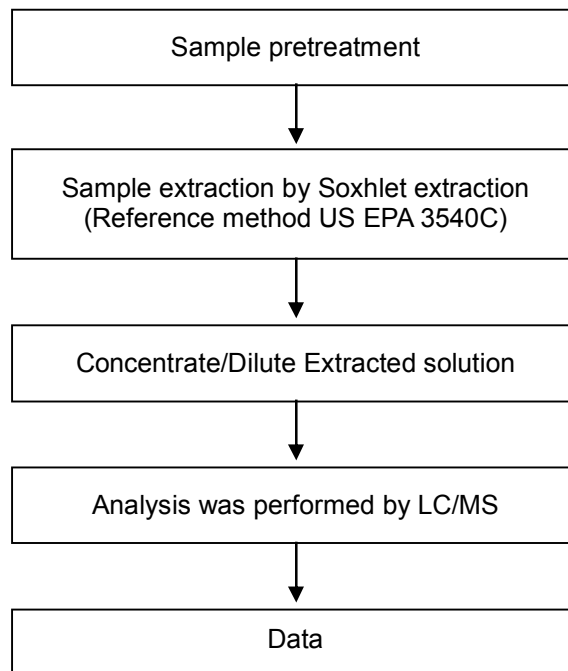
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Analytical flow chart of PFOA/PFOS content

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



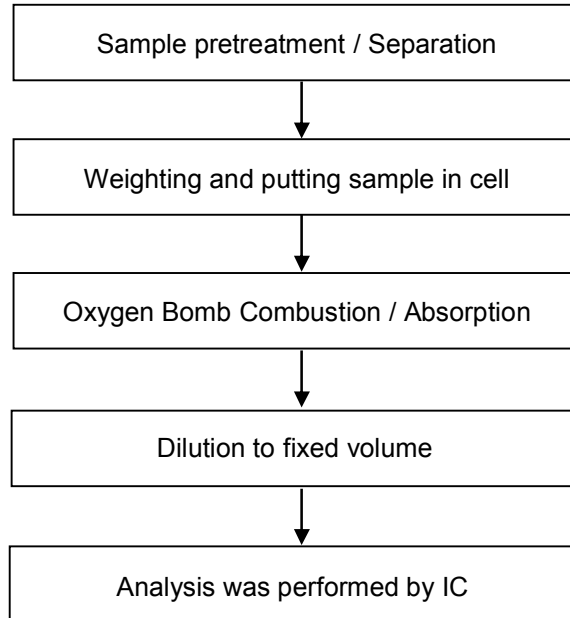
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Analytical flow chart of halogen content

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



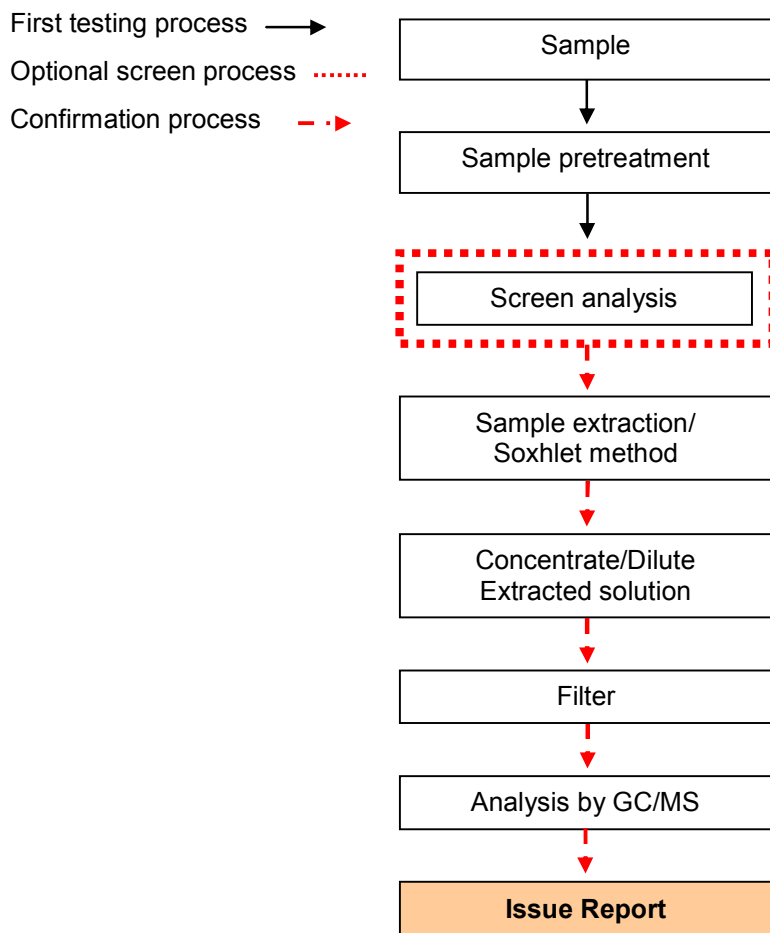
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PBB/PBDE analytical FLOW CHART

- 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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PART NAME NO.1



PART NAME NO.2



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PART NAME NO.3



PART NAME NO.4



**** End of Report ****

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