

Test Report

JAU JANQ ENTERPRISE CO., LTD.

NO.111, SIAMEN ST., LINGYA DISTRICT, KAOHSIUNG CITY 802, TAIWAN
(R.O.C.)

Report No. : KA/2008/A1940

Date : 2008/10/29

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

Sample Description : 純錫 99.99
Sample Receiving Date : 2008/10/23
Testing Period : 2008/10/23 TO 2008/10/29

=====
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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Test Result(s)

PART NAME NO.1 : SILVER 純錫 99.99

Test Item (s)	Unit	Method	MDL	Result
				No. 1
Beryllium (Be)	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
Cadmium (Cd)	mg/kg	With reference to US EPA Method 3052 for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	n.d.
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.	2	12.7
Chlorinated Paraffin (C10~C13) (CAS NO.: 010871-26-2)	%	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.01	n.d.
Formaldehyde (CAS NO.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.
PCBs (Polychlorinated Biphenyls) (CAS NO.: 001336-36-3)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/ECD.	0.5	n.d.
Polychlorinated Naphthalene	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	5	n.d.
PCTs (Polychlorinated Terphenyls)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	0.5	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
PERFLUOROOCCTANE SULFONATES (PFOS) PFOS – Acid PFOS – Metal Salt PEOS – Amide	mg/kg	With reference to US EPA 3540C : 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
PVC (CAS NO.: 9002-86-2)	**	Analysis was performed by FTIR and FLAME Test.	-	Negative
2-(2-HYDROXY-3',5'-DI-T-BUTYLPHENYL)BENZOTRIAZOLE (CAS NO.3846-71-7)	mg/kg	With reference to US EPA 3540C. Analysis was performed by GC/MS.	10	n.d.
Asbestos	---	---	---	---
Anthrophyllite (CAS NO.017068-78-9)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Crocidolite (CAS NO.012001-28-4)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Amosite (CAS NO.012172-73-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Tremolite (CAS NO.014567-73-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Chrysotile (CAS NO.012001-29-5)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Actinolite (CAS NO.013768-00-8)	%	As per NIOSH 9000 method. Analysis was performed by XRD.	1	Negative
Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)	---	---	---	---
HFC-23 (CHF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-32 (CH2F2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HFC-43-10mee (C5H2F10)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-125 (C2HF5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-134 (C2H2F4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-134a (CH2FCF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-143 (C2H3F3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-143a (C2H3F3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-152a (C2H4F2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-227ea (C3HF7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236cb (CH2FCF2CF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236fa (C3H2F6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-236ea (CHF2CHFCF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-245ca (C3H3F5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-245fa (CHF2CH2CF3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HFC-365mfc (CF3CH2CF2CH3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Item (s)	Unit	Method	MDL	Result No. 1		
Sum of PBBs			-	n.d.		
Monobromobiphenyl	mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.	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			mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.	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.				
PERFLUOROCARBON(PFC)	---	---			---	---
F14	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.			1	n.d.
Fluorocarbon 116	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.		
Freon 218	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.		
Decafluorobutane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.		
Freon C 318	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.		
Perfluoro-1-butene	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.		

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
Perfluoroisobutene	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,4-Dihydrooctafluorobutane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Nonafluoro-2-(trifluoromethyl)butane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluoro-n-pentane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
2-Perfluoromethylpentane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Perfluorohexane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Phthalates	---	---	---	---
DEHP(Di-(2-ethylhexyl phthalate)) (CAS No.000117-81-7)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.003	n.d.
DIDP(Di-isodecyl phthalate) (CAS No.026761-40-0)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.01	n.d.
DNOP(Di-n-octyl phthalate) (CAS No.000117-84-0)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.003	n.d.
DBP(Di-butyl phthalate) (CAS No.000084-74-2)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.003	n.d.
BBP(Benzyl butyl phthalate) (CAS No.000085-68-7)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.003	n.d.
DINP(Di-isononyl phthalate) (CAS No.028553-12-0)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.01	n.d.
DHP(Di-hexyl phthalate) (CAS No.000084-75-3)	%	With reference to EN 14372 : 2004 method. Analysis was performed by GC/MS.	0.003	n.d.

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Test Item (s)	Unit	Method	MDL	Result No. 1
Organic-TIN compounds	---	---	---	---
Tributyl Tin(TBT) (CAS NO.: 000688-73-3)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
Triphenyl Tin(TphT) (CAS NO.: 000668-34-8)	mg/kg	With reference to DIN 38407-13. Analysis was performed by GC/FPD.	0.03	n.d.
AZO	---	---	---	---
1):4-AMINODIPHENYL (CAS NO.92-67-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
2):BENZIDINE (CAS NO.92-87-5)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
3):4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
4):2-NAPHTHYLAMINE (CAS NO.91-59-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
5):O-AMINO-AZOTOLUENE (CAS NO.97-56-3)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
6):2-AMINO-4-NITROTOLUENE (CAS NO.99-55-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
7):P-CHLOROANILINE (CAS NO.106-47-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
8):2,4-DIAMINOANISOLE (CAS NO.615-05-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
9):4,4-DIAMINODIPHENYLMETHANE (CAS NO.101-77-9)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
10):3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
11):3,3-DIMETHOXYBENZIDINE (CAS NO.119-90-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
12):3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
13):3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHA (CAS NO.838-88-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
14):P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS NO.120-71-8)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
15):4,4-METHYLENE-BIS-(2-CHLORANILINE) (CAS NO.101-14-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
16):4,4-OXYDIANILINE (CAS NO.101-80-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
17):4,4-THIODIANILINE (CAS NO.139-65-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
18):O-TOLUIDINE (CAS NO.95-53-4)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
19):2-4-TOLUYLENDIAMINE (CAS NO.95-80-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
20):2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
21):O-ANISIDINE (CAS NO.90-04-0)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
22):P-AMINOAZOBENZENE (CAS NO.60-09-3)	mg/kg	With reference to LMBG 82.02-Z. Analysis was performed by GC/MS.	3	n.d.
23):2,4-XYLIDINE (CAS NO.95-68-1)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.
24):2,6-XYLIDINE (CAS NO.87-62-7)	mg/kg	With reference to LMBG 82.02-2. Analysis was performed by GC/MS.	3	n.d.

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- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
 5. " - " = Not Regulated
 6. " --- " = Not Conducted
 7. ** = Qualitative analysis (No Unit)
 8. Negative = Undetectable / Positive = Detectable
 9. The MDL is 5ppm for the single compound of CP
 10. Brand and model of FTIR: VARIAN 3100
 11. The Asbestos test was subcontracted to other SGS Laboratory.

PFOS Reference Information : 2006/122/EC (Directive 2006/122/EC)

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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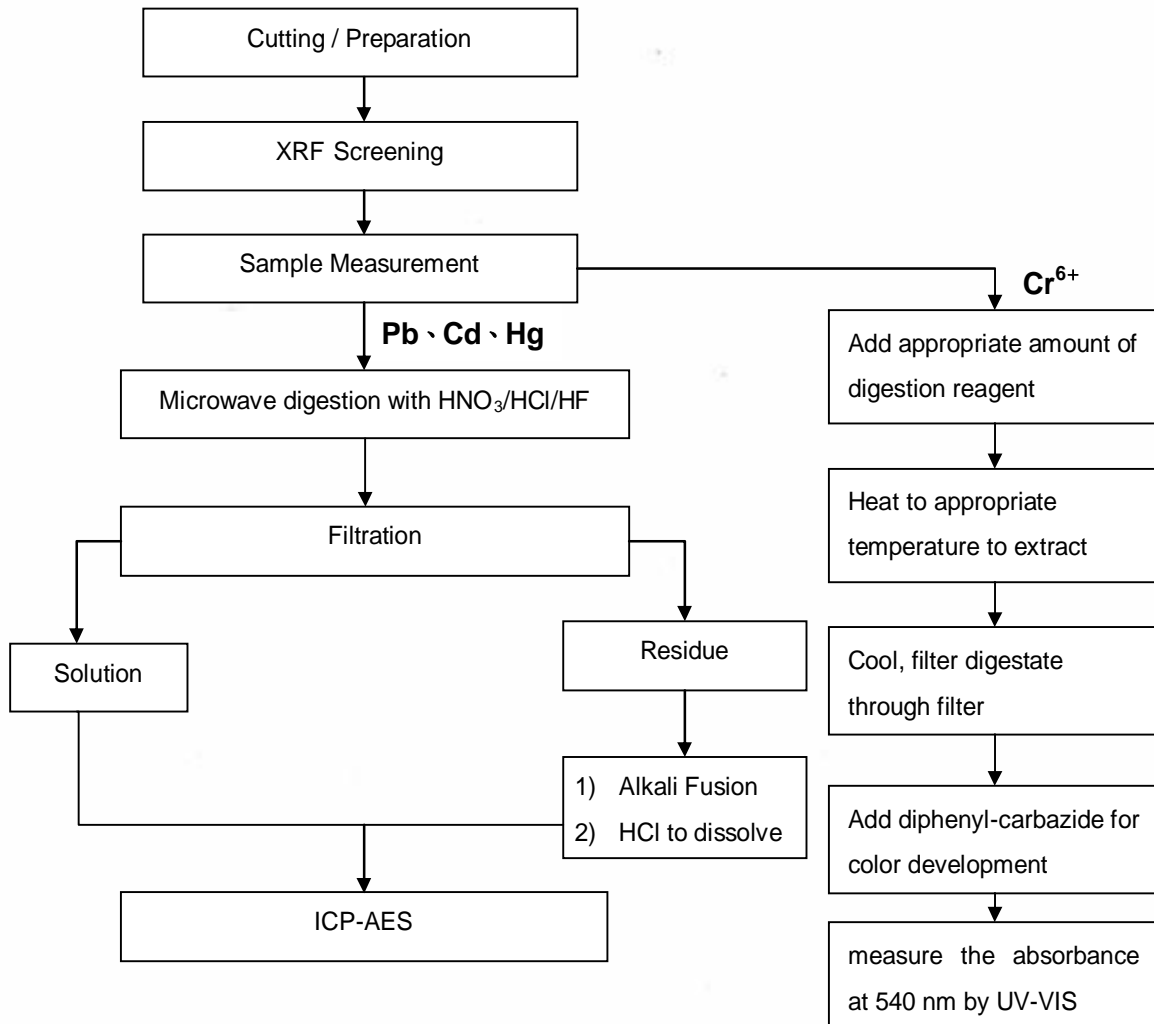
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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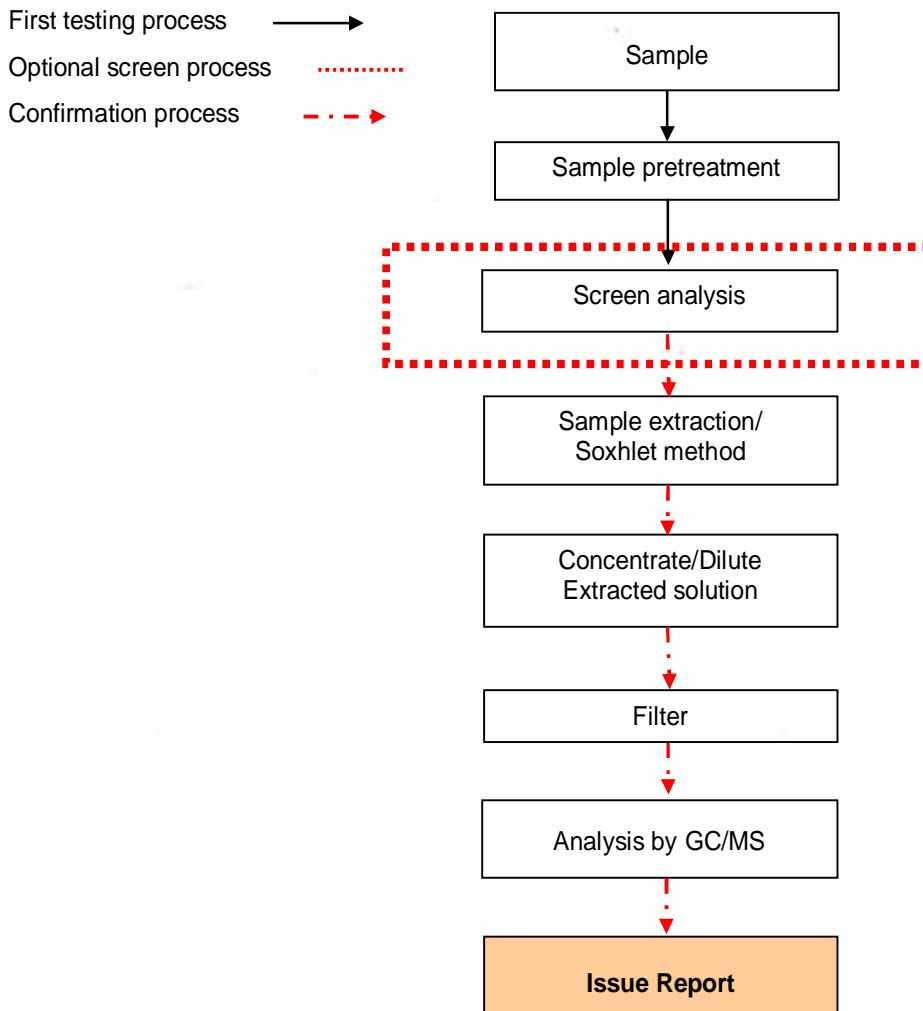
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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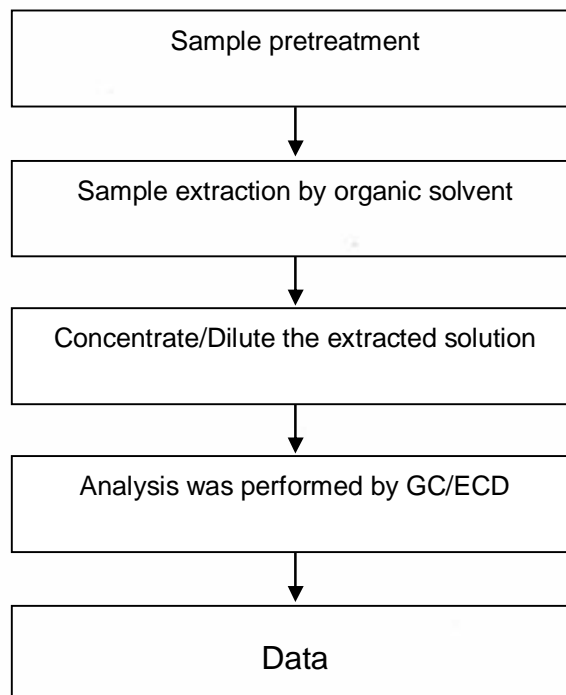
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

- Reference method: USEPA 3540
- Test Items: PCBs, CP, MCCP



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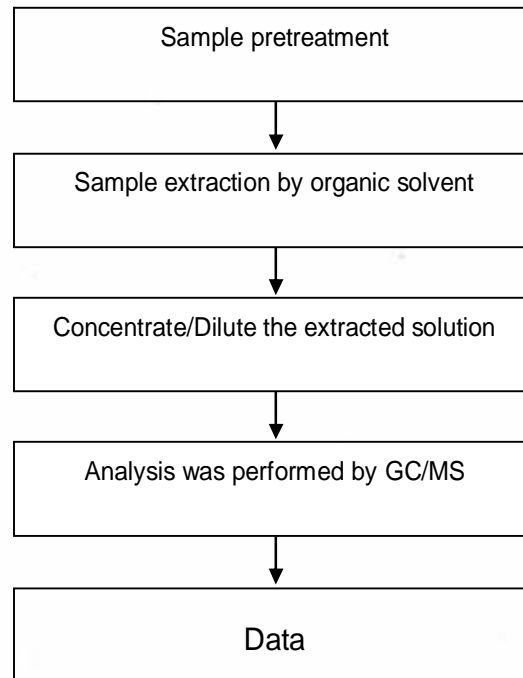
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang

- Reference method: US EPA 8270D, US EPA 3540
- Test Items: PCNs, PCTs, Mirex



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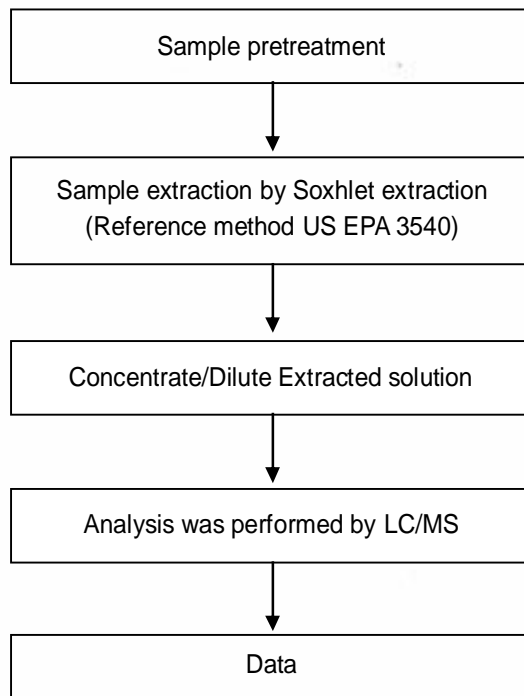
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Analytical flow chart of PFOS content



- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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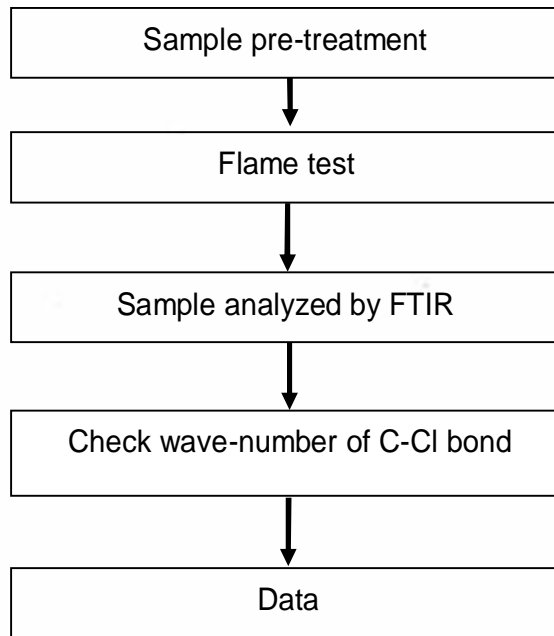
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Analysis flow chart for determination of PVC in polymer material

- 1) Name of the person who made measurement: Joyce Chiu
- 2) Name of the person in charge of measurement: Roger Lin



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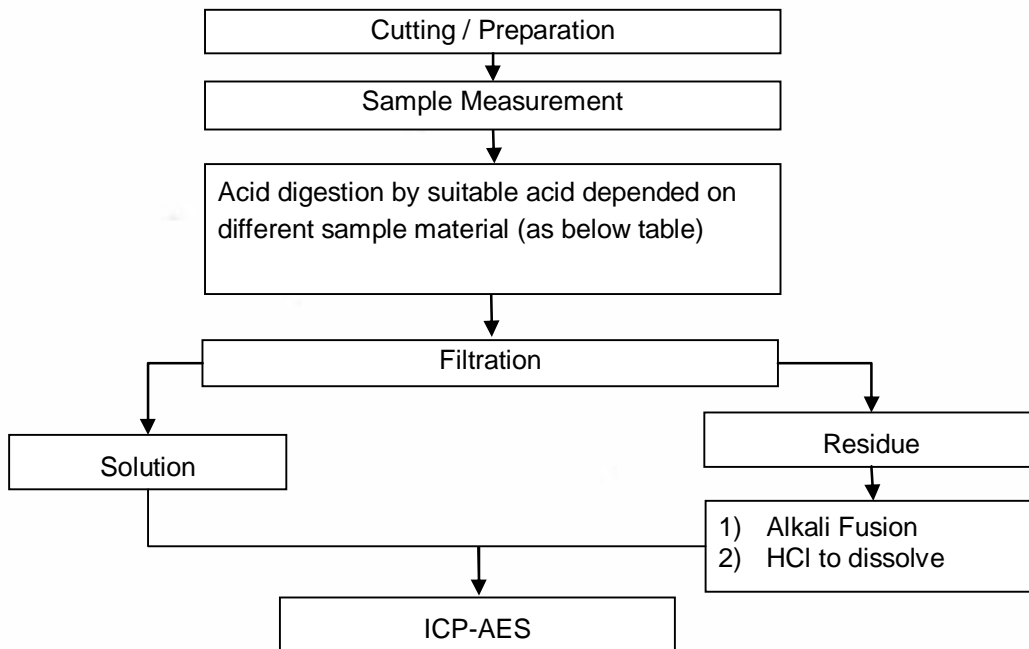
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang

Flow Chart of Digestion for Be analysis



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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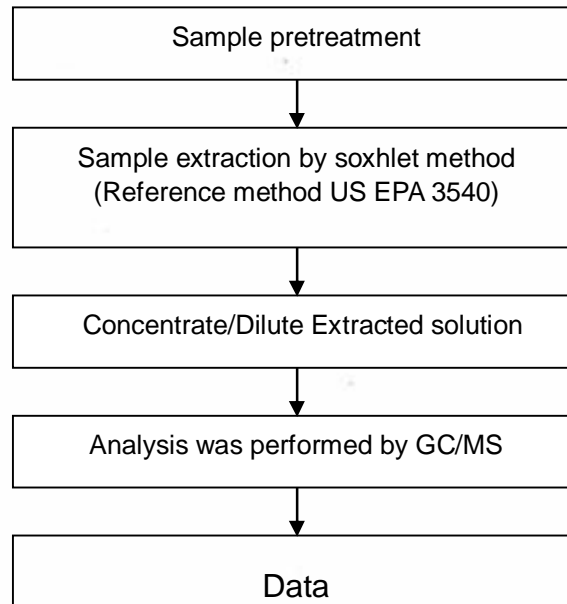
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Analytical flow chart of benzotriazole content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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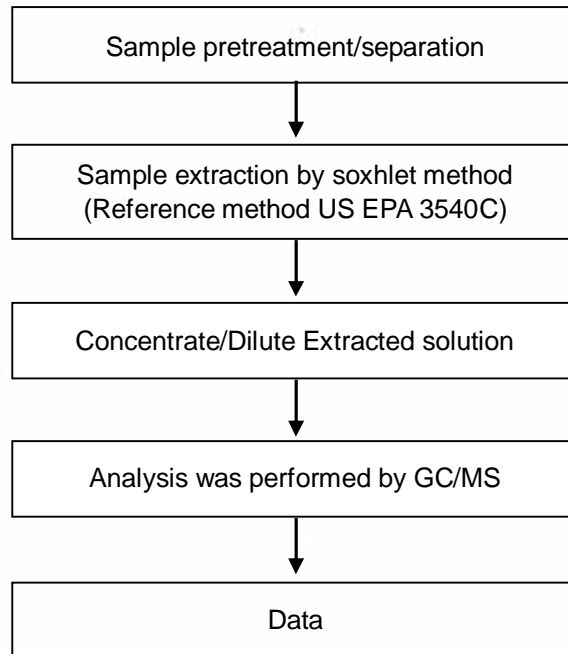
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Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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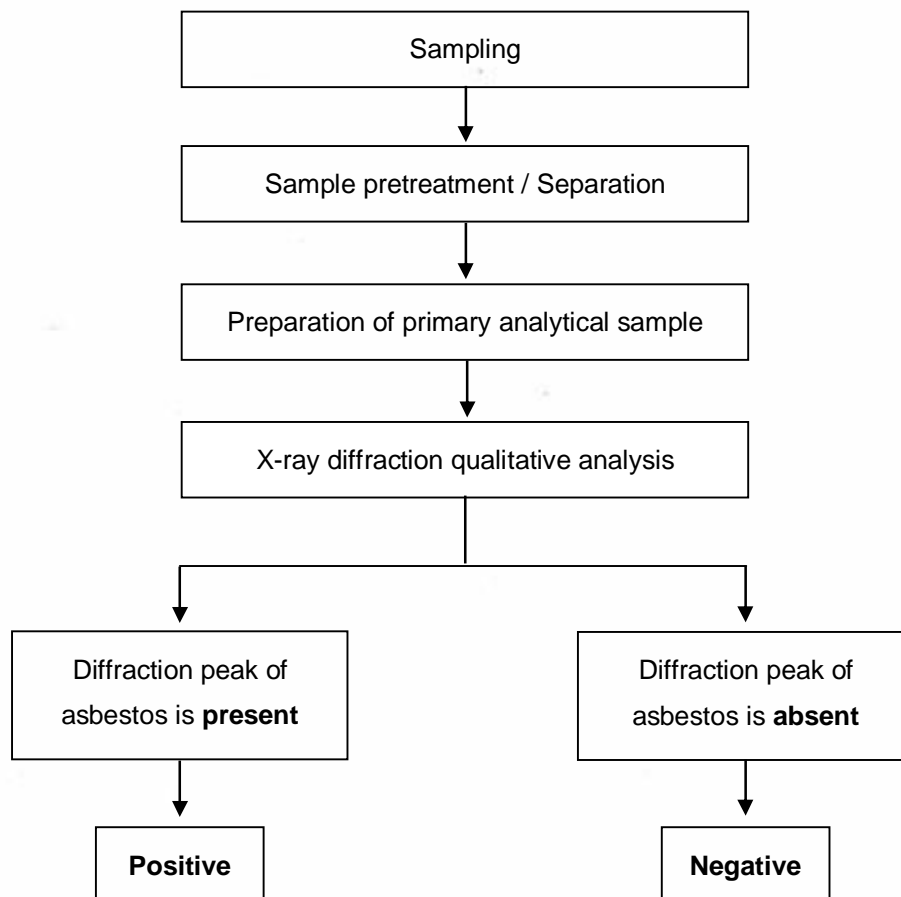
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Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: James Lu



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** End of Report **

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