



Test Report

FORMOSA PLASTICS CORPORATION

NO.100, SHUI-GUAN RD., JEN-WU SHIANG, KAOHSIUNG COUNTY,
TAIWAN R. O. C.

Report No. : KA/2009/31235

Date : 2009/03/24

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

Sample Description : WHITE POLYVINYL CHLORIDE
Style/Item No. : JW-15C
Sample Receiving Date : 2009/03/16
Testing Period : 2009/03/16 TO 2009/03/24

=====
Test Result(s) : - Please see the next page(s) -

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited

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Test Result(s)

PART NAME NO.1 : WHITE POLYVINYL CHLORIDE

Test Item (s)	Unit	Method	MDL	Result No. 1		
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008. Determination of Cadmium by ICP-AES.	2	n.d.		
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008. Determination of Mercury by ICP-AES.	2	n.d.		
Lead (Pb)	mg/kg	With reference to IEC 62321:2008. Determination of Lead by ICP-AES.	2	n.d.		
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321:2008. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.		
Sum of PBBs			-	n.d.		
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008. Determination of PBBs and PBDEs 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 IEC 62321:2008. Determination of PBBs and PBDEs 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.				

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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.
Cobalt dichloride***	mg/kg	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	n.d.
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.
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.
PERFLUOROOCCTANE 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.
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.
Formaldehyde (CAS NO.: 000050-00-0)	mg/kg	With reference to DIN 53315. Analysis was performed by HPLC/DAD.	3	n.d.
PVC (CAS NO.: 9002-86-2)	**	Analysis was performed by FTIR and FLAME Test.	-	Positive
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

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Test Item (s)	Unit	Method	MDL	Result No. 1
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.
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.
CHCs (Chlorinated hydrocarbon)				
1,1,1,2-Tetrachloroethane (CAS NO.: 000630-20-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1,1-Trichloroethane (CAS NO.: 000071-55-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1,2,2-Tetrachloroethane (CAS NO.: 000079-34-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1,2-Trichloroethane (CAS NO.: 000079-00-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethene (CAS NO.: 000075-35-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloroethane (CAS NO.: 000075-34-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,1-Dichloropropene (CAS NO.: 000563-58-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,2,3-Trichloropropane (CAS NO.: 000096-19-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,2-Dichloroethane (CAS NO.: 000107-06-2)	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
1,2-Dichloropropane (CAS NO.: 000078-87-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
1,3-Dichloropropane (CAS NO.: 000142-28-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
2,2-Dichloropropane (CAS NO.: 000594-20-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloroethane (CAS NO.: 000075-00-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloroform (CAS NO.: 000067-66-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chloromethane (CAS NO.: 000074-87-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Cis-1,2-Dichloroethene (CAS NO.: 000156-59-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Cis-1,3-Dichloropropene (CAS NO.: 010061-01-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hexachlorobutadiene (CAS NO.: 000087-68-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Methylene Chloride (CAS NO.: 000075-09-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
trans-1,2-Dichloroethene (CAS NO.: 000156-60-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
trans-1,3-Dichloropropene (CAS NO.: 010061-02-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Trichloroethylene (CAS NO.: 000079-01-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Carbon Tetrachloride	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Methyl Chloroform	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
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.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
HFC-41 (CH3F)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
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.
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.

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
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.
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.
CFCs(Chlorofluorocarbons) & HALON				
Chlorofluorocarbon-11 (CAS NO.: 000075-69-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-12 (CAS NO.: 000075-71-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-113 (CAS NO.: 000076-13-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-114 (CAS NO.: 000076-14-2)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-115 (CAS NO.: 000076-15-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-13 (CAS NO.: 000075-72-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-111 (CAS NO.: 000354-56-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-112 (CAS NO.: 000076-12-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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				No. 1
Chlorofluorocarbon-211 (CAS NO.: 135401-87-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-212 (CAS NO.: 076564-99-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-213 (CAS NO.: 060285-54-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-214 (CAS NO.: 002268-46-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-215 (CAS NO.: 000076-17-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-216 (CAS NO.: 001652-80-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Chlorofluorocarbon-217 (CAS NO.: 000422-86-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-1211	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-1301	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HALON-2402	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HCFC's (Hydrogenated)				
Hydrochlorofluorocarbon-21 (CAS NO.: 000075-43-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-22 (CAS NO.: 000075-45-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-31 (CAS NO.: 000593-70-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-121 (CAS NO.: 130879-71-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-122 (CAS NO.: 041834-16-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-123 (CAS NO.: 034077-87-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-124 (CAS NO.: 063938-10-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-131 (CAS NO.: 134237-34-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.

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Test Report

FORMOSA PLASTICS CORPORATION

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Test Item (s)	Unit	Method	MDL	Result No. 1
Hydrochlorofluorocarbon-132 (CAS NO.: 025915-78-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-133 (CAS NO.: 001330-45-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-141 (CAS NO.: 025167-88-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-141b (CAS NO.: 001717-00-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-142 (CAS NO.: 025497-29-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-142b (CAS NO.: 000075-68-3)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-151 (CAS NO.: 001615-75-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-221 (CAS NO.: 134237-35-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-222 (CAS NO.: 134237-36-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-223 (CAS NO.: 134237-37-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-224 (CAS NO.: 134237-38-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225 (CAS NO.: 127564-92-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225ca (CAS NO.: 000422-56-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-225cb (CAS NO.: 000507-55-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-226 (CAS NO.: 134308-72-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-231 (CAS NO.: 134190-48-0)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-232 (CAS NO.: 134237-39-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-233 (CAS NO.: 134237-40-4)	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
Hydrochlorofluorocarbon-234 (CAS NO.: 127564-83-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-235 (CAS NO.: 134237-83-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-241 (CAS NO.: 134190-49-1)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-242 (CAS NO.: 134237-42-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-243 (CAS NO.: 134237-43-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-244 (CAS NO.: 134190-50-4)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-251 (CAS NO.: 134190-51-5)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-252 (CAS NO.: 134190-52-6)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-253 (CAS NO.: 134237-44-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-261 (CAS NO.: 134237-45-9)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-262 (CAS NO.: 134190-53-7)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Hydrochlorofluorocarbon-271 (CAS NO.: 134190-54-8)	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC's (Hydrogenated bromofluorocarbons)				
HBFC-21B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-22B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-31B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-121B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-122B3	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
HBFC-123B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-124B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-131B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-132B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-133B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-141B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-142B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-151B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-221B6	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-222B5	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-223B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-224B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-225B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-226B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-231B5	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-232B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-233B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-234B2	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
HBFC-235B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-241B4	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-242B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-243B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-244B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-251B3	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-252B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-253B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-261B2	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-262B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
HBFC-271B1	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	n.d.
Bromomethane	mg/kg	With reference to US EPA 5021. Analysis was performed by GC/MS.	1	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.

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Test Item (s)	Unit	Method	MDL	Result No. 1
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	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.
13):3,3-DIMETHYL-4,4-DIAMINODIPHENYLMETHA	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)	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 ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. " - " = Not Regulated
 5. 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
 6. ** = Qualitative analysis (No Unit)
 7. Negative = Undetectable / Positive = Detectable
 8. Amending for the 22nd Council Directive 76/769/EEC notified under document 2005/84/EC, total concentration of three compounds DEHP, DBP and BBP shall not be greater than 0.1% and total concentration of three compounds DINP, DIDP and DNOP shall not be greater than 0.1%.
 9. ***The substance is calculated by the test results of Cobalt. The MDL is evaluated forCobalt or Phosphorus respectively.)
 10. The Asbestos test was subcontracted to other SGS Laboratory.
 11. The PVC & ASBESTOS test was subcontracted to other SGS Laboratory.

PFOS Reference Information : 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 $1\mu\text{g}/\text{m}^2$ of the coated material.

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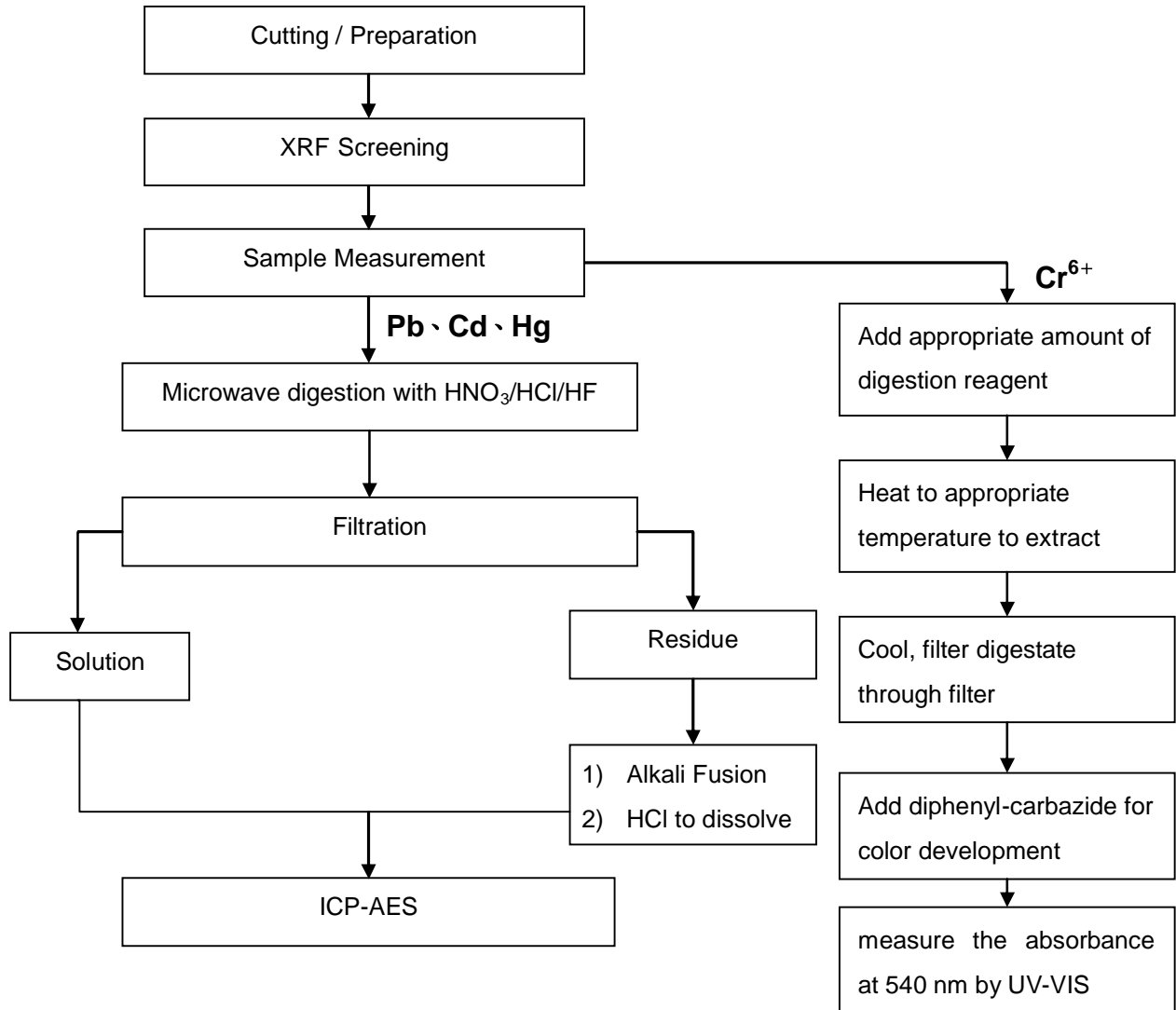
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
 (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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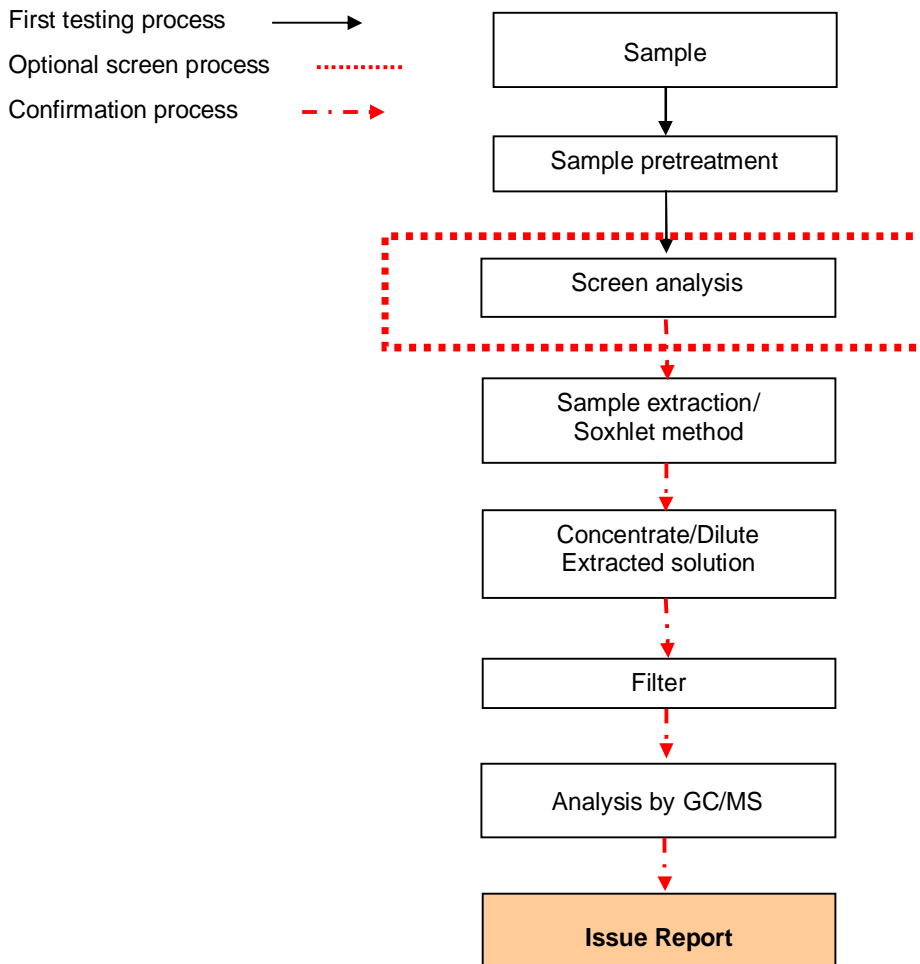
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PBB/PBDE analytical FLOW CHART

- 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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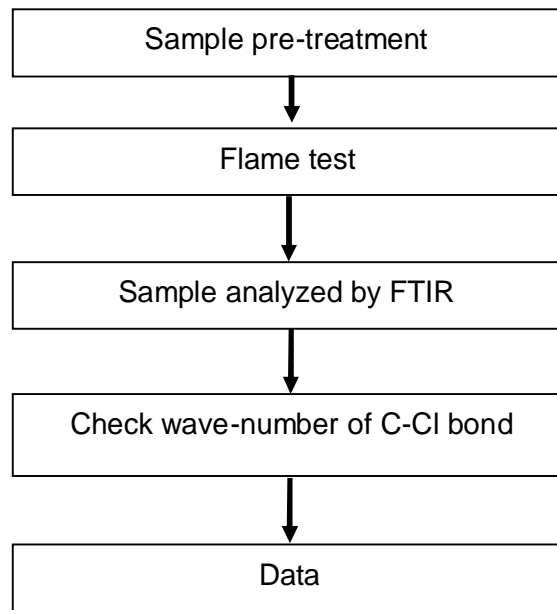
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Analysis flow chart for determination of PVC in polymer material

- 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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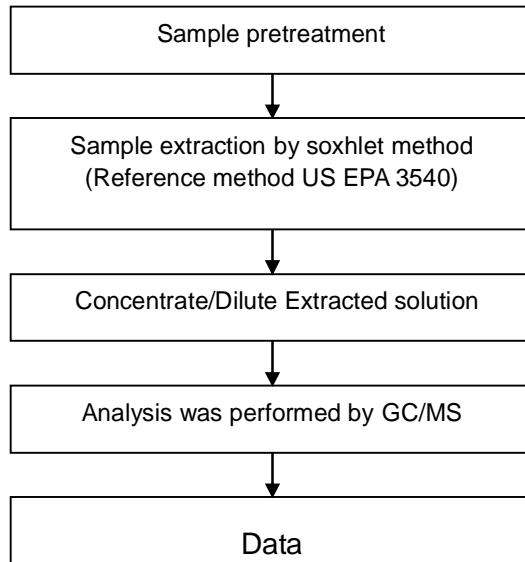
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Analytical flow chart of benzotriazole content

- 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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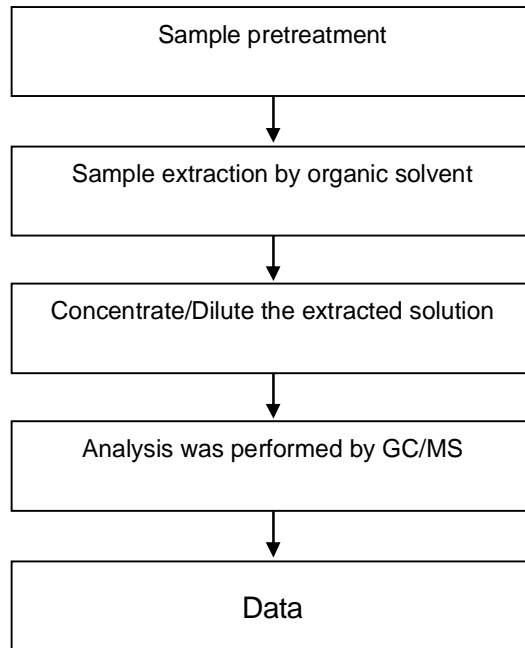
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Chlorinated Flame retardant analytical flow chart

- 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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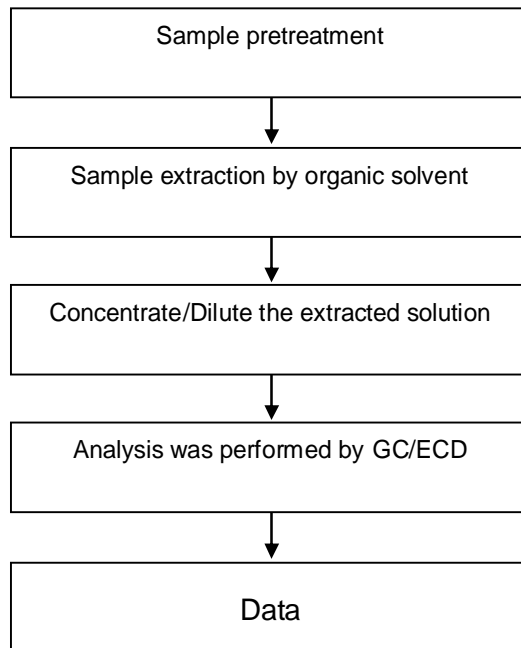
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Chlorinated Flame retardant analytical flow chart

- 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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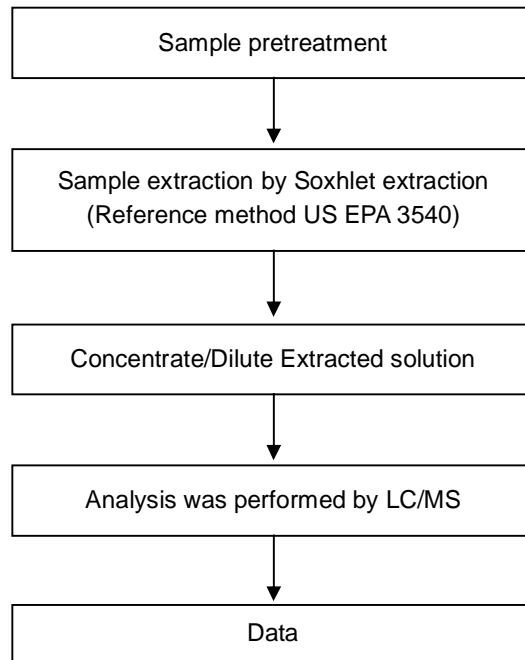
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Analytical flow chart of PFOS content

- 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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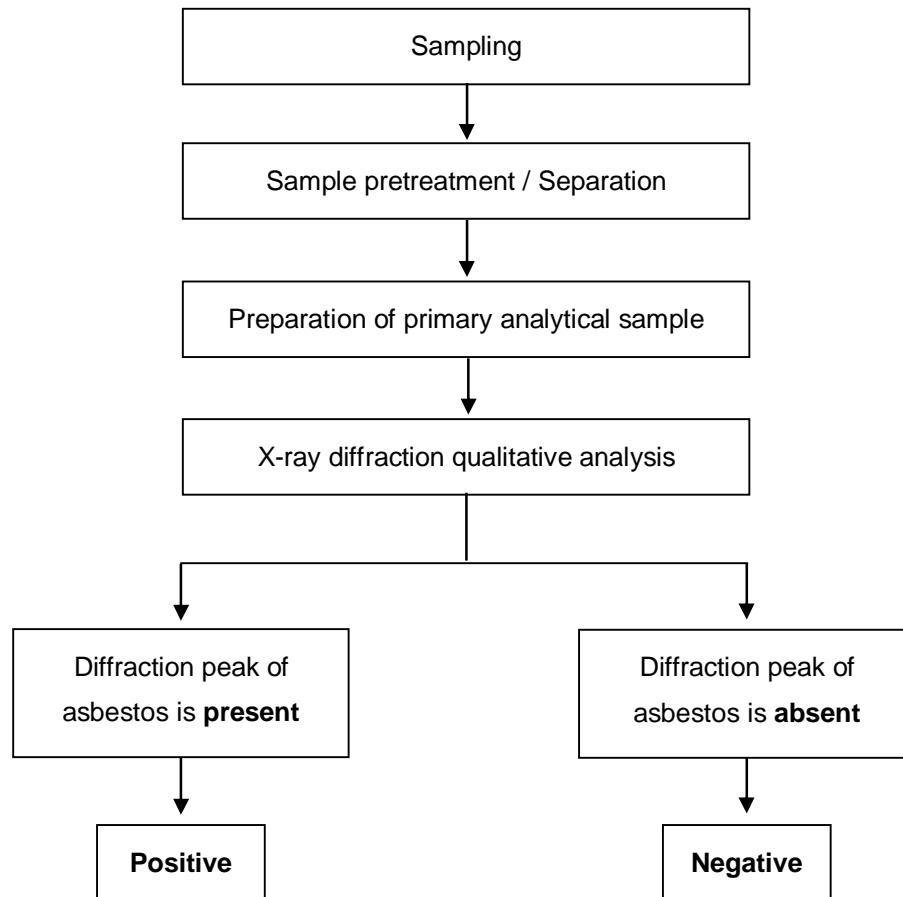
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Analysis flow chart for determination of Asbestos

- 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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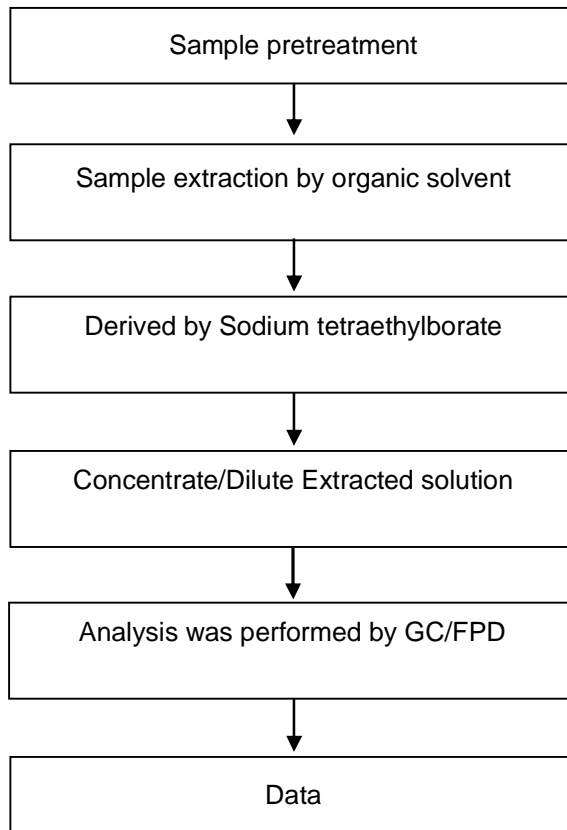
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Analytical flow chart of Organic-Tin content

- 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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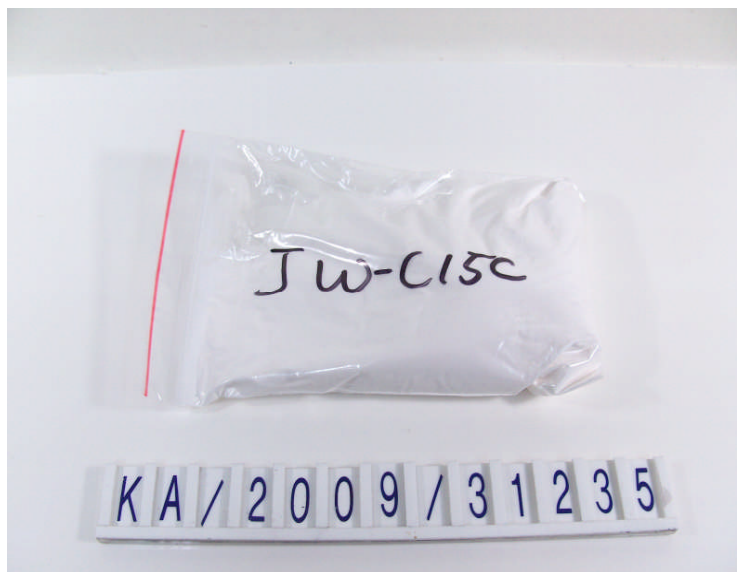
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** End of Report **

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