



# FORMOSA PLASTICS CORPORATION

## PVC Specification

TYPE	Grade	K value	Polymerization Degree	Bulk Density (g/c.c)	Volatile Matter (%)	VAC contain %	+42mesh Course particles %	
MASS PVC	B-57	54.1~56.0	620±30	0.60±0.02	0.3↓	-	0.01 ↓	
	B-60	57.8~59.4	740±30	0.60±0.02	0.3↓	-	0.01 ↓	
Suspension PVC	S-60	59.2~60.6	780±30	0.55±0.02	0.3↓	-	0.01 ↓	
	S-65S	64.6~66.0	1030±30	0.48±0.02	0.3↓	-	0.01 ↓	
	S-65F	64.6~66	1030±30	0.50±0.02	0.3↓	-	0.01 ↓	
	S-65D	65.7~67.1	1050±50	0.55±0.02	0.3↓	-	0.01 ↓	
	S-70	69.6~71.5	1250±50	0.47±0.02	0.3↓	-	0.01 ↓	
	S-75	73.4~75.2	1450±50	0.45±0.02	0.3↓	-	0.01 ↓	
	S-80	79.4~81.1	1800±50	0.45±0.02	0.3↓	-	0.01 ↓	
Blending Resins	SPR-D	63.0~68.0	1000±100	0.48±0.05	0.8 ↓	3.0	-	
Copolymer	C-8	58.9~61.6	800±50	0.55±0.02	2.0↓	8.0±1.0	0.01 ↓	
	C-15	47.8~51.2	450±50	0.48±0.02	2.0↓	12.5±1.0	0.01 ↓	
Mat PVC	C-1250M	~70	~1250	0.43±0.03	0.3 ↓	-	0.01 ↓	
Paste Resin	Micro-suspension	PR-F	75.5~78.5	1600±100	0.30±0.05	0.5↓	-	-
		PR-G	77.5~81.0	1700±100	0.30±0.05	0.5↓	-	-
	Emulsion	PR-500	73.0~76.5	1450±100	0.25±0.05	0.5↓	-	-
		PR-450	63.0~68.0	1000±100	0.25±0.05	0.5↓	-	-
		PR-415	73.0~76.5	1450±100	0.25±0.05	0.8 ↓	-	-
		PR-1069	77.5~81.0	1750±100	0.25±0.05	0.5↓	-	-

Test method :

1. K Value : DIN 53726
2. Polymerization degree 、 Bulk Density 、 Volatile Matter : JIS-K6721
3. 42 mesh course particles : % course particles on 42 mesh sieve



# FORMOSA PLASTICS CORPORATION

## Application and Properties

TYPE	Grade	Properties	Application	
MASS PVC	B-57	Mass PVC with excellent gelling and flow properties.	Used for compounding with copolymer C-8 or C-15 to manufacture rigid sheet and tiles, especially used for transparent bottles manufactured by extrusion and injection stretch or nonstretch blow molding machines.	
	B-60	Mass PVC with excellent gelling, high bulk density, high clarity and high initial color properties.	Used for calendaring process of rigid film, sheet and extrusion or injection mold articles.	
Suspension PVC	S-60	Suspension Pvc with good gelling and very high transparency properties.	Used for extrusion, injection blow molding articles and calendaring process of rigid film, sheet. It also used for pipe fitting.	
	S-65S	Suspension Pvc with good plasticizer absorption and good heat stability.	Due to the excellent initial color properties, especially used for transparent and white products.	
	S-65F	Suspension Pvc with good plasticizer absorption and good heat stability.	This resin is intended for soft application, flexible film, and other flexible articles. It also suit for cables and wires application.	
	S-65D	Suspension Pvc with high bulk density, and excellent initial color properties.	This resin is intended for rigid molding articles processing, particularly for extrusion process of rigid pipe with high extrusion quantity.	
	S-70	Suspension Pvc with high porosity, good plasticizer absorption and good electrical properties.	Used for extrusion, injection molding and calendaring or flexible products, especially for wires and cables.	
	S-75	Suspension Pvc with very high porosity and good plasticizer absorption.	Used for calendaring process of film and sheet with excellent mechanic and physical properties, especially suitable for high insulating wires and cables.	
	S-80	Suspension Pvc with excellent porosity and high ratio of plasticizer absorption enhance the flexibility and elasticity of finish products.	Used for versatile process of excellent mechanical and high elastic purpose products.	
Blending Resins	SPR-D	Blending PVC resin with coarse particle size approximate 50um is used as viscosity depressing.	SPR-D is mixed with paste resin such as PR-415, PR-450, PR-500, PR-1069 and PR-F to make floor covering, automobile products and molding products such as dolls and toys, etc.	
Copolymer	C-8	Suspension VC/VAC copolymer with low melt viscosity.	Used for the manufacture of rigid plates, tiles, printing inks, surface treatment agent, etc.	
	C-15	Suspension VC/VAC copolymer with very low melt viscosity, excellent flow properties.	Specially suitable for protective coatings, printing inks and tiles.	
Mat PVC	C-1250M	Lower gloss value as well as excellent dry mat surface finish.	Used for injection, calendaring and extrusion of flexible products.	
Paste Resin	Micro-suspension	PR-F	Suitable viscosity, good air release, good foaming, excellent strength, excellent yield value and excellent Hegman scratch.	Foam leather, foaming products, gloves, toys and dolls.
		PR-G	Low viscosity and high transparency.	Soft toy, dipping, rotational molding, slush molding and casting molding.
	Emulsion	PR-500	High viscosity and good foaming.	Foam leather and foaming product.
		PR-450	Suitable viscosity, excellent foaming.	Floor covering, wall covering, foam sheet, casting leather.
		PR-415	Low viscosity, easy mold release and excellent heat stability.	Doll, toy, boots and automobile accessories.
		PR-1069	Low viscosity, excellent mechanical property, abrasion resistance, water resistance and excellent clarity.	Wear layer of floor covering, casting leather, top or surface, coating and toy.

### Packages :

1. Jumbo Bag : 1.0 or 1.1MT packed in PP jumbo bag with pallet, containerized ship.

2. 25 kg bags : 25kg PP woven bag with PE inner bag or 25kg paper bag with laminated (without pallet).



Grade	Code	K value	Polymerization Degree	Bulk Density (g/c.c)	Volatile Matter (%)	Characteristic	Application
S-60	T	59.2~60.6	780±30	0.55±0.02	0.3↓	Suspension PVC with good gelling and very high transparency properties.	Used for extrusion, injection blow molding articles and calendaring process of rigid film, sheet.
S-65S	F	64.6~66.0	1030±30	0.48±0.02	0.3↓	Suspension PVC with good plasticizer absorption and good heat stability.	Due to the excellent initial color prosperities especially used for transparent and white products.
S-65	F	64.6~66.0	1030±30	0.50±0.02	0.3↓	Suspension PVC with good plasticizer absorption and good heat stability.	This resin is intended for soft application, flexible film, and other flexible articles. It also suit for cables and wires application.
S-65	R	64.6~66.0	1030±30	0.53±0.02	0.3↓	Suspension PVC with good gelling properties,	Used for extrusion process of rigid pipe, large size rigid pipe.
S-65	D	65.7~67.1	1050±50	0.55±0.02	0.3↓	Suspension PVC with high bulk density, and excellent initial color prosperities	This resin is intended for rigid molding articles processing, particularly for extrusion process of rigid pipe with high extrusion quantity,

Test method : K Value : DIN 53726 Polymerization degree 、 Bulk Density 、 Volatile Matter : JIS-K6721

Code : T : Transparent F : Film R : Rigid D : High B.D



Grade	K value	Polymerization Degree	Bulk Density (g/c.c)	Volatile Matter (%)	Characteristic	Application
S-70	69.6~71.5	1250±50	0.47±0.02	0.3↓	Suspension PVC with high porosity, good plasticizer absorption and good electrical properties.	Used for extrusion, injection molding and calendering or flexible products, especially for wires and cables.
S-75	73.4~75.2	1450±50	0.45±0.02	0.3↓	Suspension PVC with very high porosity and good plasticizer absorption.	Used for calendering process of film and sheet with excellent mechanic and physical properties, especially suitable for high insulating wires and cables.
S-80	79.4~81.1	1800±50	0.45±0.02	0.3↓	Suspension PVC with excellent porosity and high ratio of plasticizer absorption enhance the flexibility and elasticity of finish products.	This resin is used for versatile process of excellent mechanical and high elastic purpose products.
S-85	89.0~97.0	2500±200	0.35±0.02	0.3↓	Suspension PVC with excellent porosity and high ratio of plasticizer absorption enhance the flexibility and elasticity of	This resin is used for versatile process of excellent mechanical and high elastic purpose products.

Test method : K Value : DIN 53726

Polymerization degree、Bulk Density、Volatile Matter : JIS-K6721



Grade	K value	Polymerization Degree	Bulk Density (g/c.c)	Volatile Matter (%)	VAc contain %	Characteristic	Application
C-8	58.9~61.6	800±50	0.55±0.02	2.0↓	8.0±1.0	Suspension VC/VAc copolymer with low melt viscosity.	Used for the manufacture of rigid plates, tiles, printing inks, surface treatment agent etc.
C-15	47.8~51.2	450±50	0.48±0.02	2.0↓	12.5±1.0	Suspension VC/VAc copolymer with very low melt viscosity, excellent flow properties	Specially suitable for protective coatings, printing inks and tiles
C-15C	58.3~61.6	780±50	0.50±0.02	2.0↓	12.5±1.0	Suspension VC/VAc copolymer with very low melt viscosity.	Used for credit cards application.

Test method : K Value : DIN 53726

Polymerization degree、Bulk Density、Volatile Matter : JIS-K6721

Grade	Polymerization Degree	K-Value	Volatile (%)	Apparent Density (g/c.c)	+42mesh Coarse Particles %	Properties	Applications
C-1250M	~1250	~70	0.3↓	0.43±0.03	<0.01	Lower gloss value as well as excellent dry mat surface finish	injection, calendaring, and extrusion of flexible products.

# FPC - Blending Resins



Grade	Polymer Degree	K-Value	Volatile Content (%)	Vac Content (%)	Bulk Density (g/c.c)	Characteristic	Application
SPR-D	1000±10 0	63~68	0.8↓	3	0.48±0.05	Blending PVC resin with coarse particle size approximate 50um is used as viscosity depressing	PR-D is mixed with paste resin such as PR-415, PR-450, PR-500, PR-1069 and PR-F to make floor covering, automobile products and molding products such as dolls and toys etc.



# Test Report

FORMOSA PLASTICS CORPORATION

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

Report No. : KA/2009/31233

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 S65D  
Sample Receiving Date : 2009/03/16  
Testing Period : 2009/03/16 TO 2009/3/24

=====  
**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.		
<b>Sum of PBBs</b>			-	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.		
<b>Sum of PBDEs</b>					-	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
<b>Asbestos</b>				
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
<b>Phthalates</b>				
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.
<b>Organic-TIN compounds</b>				
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.
<b>CHCs (Chlorinated hydrocarbon)</b>				
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.
<b>Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)</b>				
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 Report

FORMOSA PLASTICS CORPORATION

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

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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 (CHF2CHF2CF3)	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.
<b>PERFLUOROCARBON(PFC)</b>				
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.
<b>CFCs(Chlorofluorocarbons) &amp; HALON</b>				
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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Test Item (s)	Unit	Method	MDL	Result
				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.
<b>HCFC's (Hydrogenated)</b>				
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 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.
<b>HBFC's (Hydrogenated bromofluorocarbons)</b>				
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.
<b>AZO</b>				
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 Report

FORMOSA PLASTICS CORPORATION

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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 for Cobalt 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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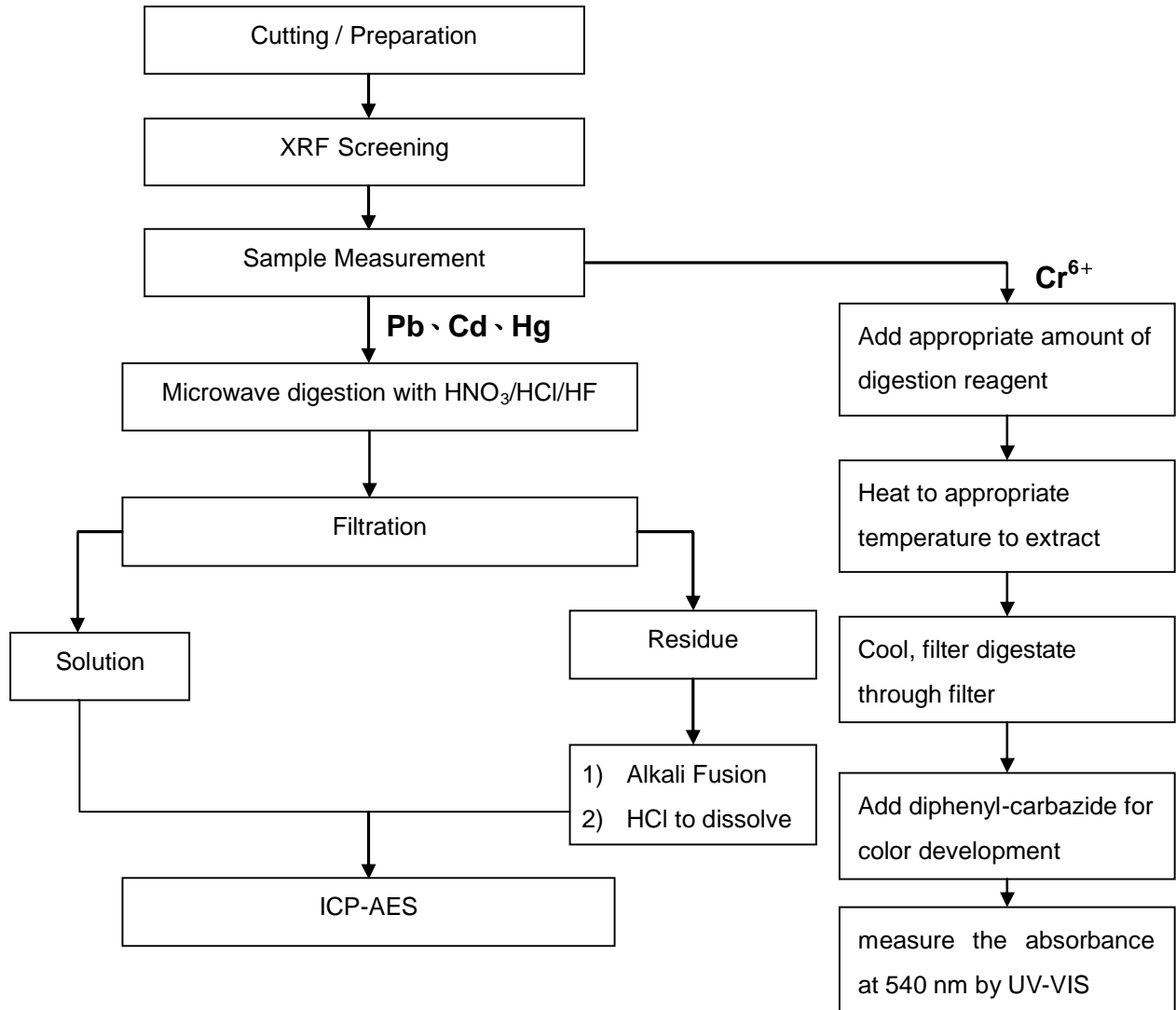
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 ( Cr<sup>6+</sup> test method excluded )
- 2) Name of the person who made measurement: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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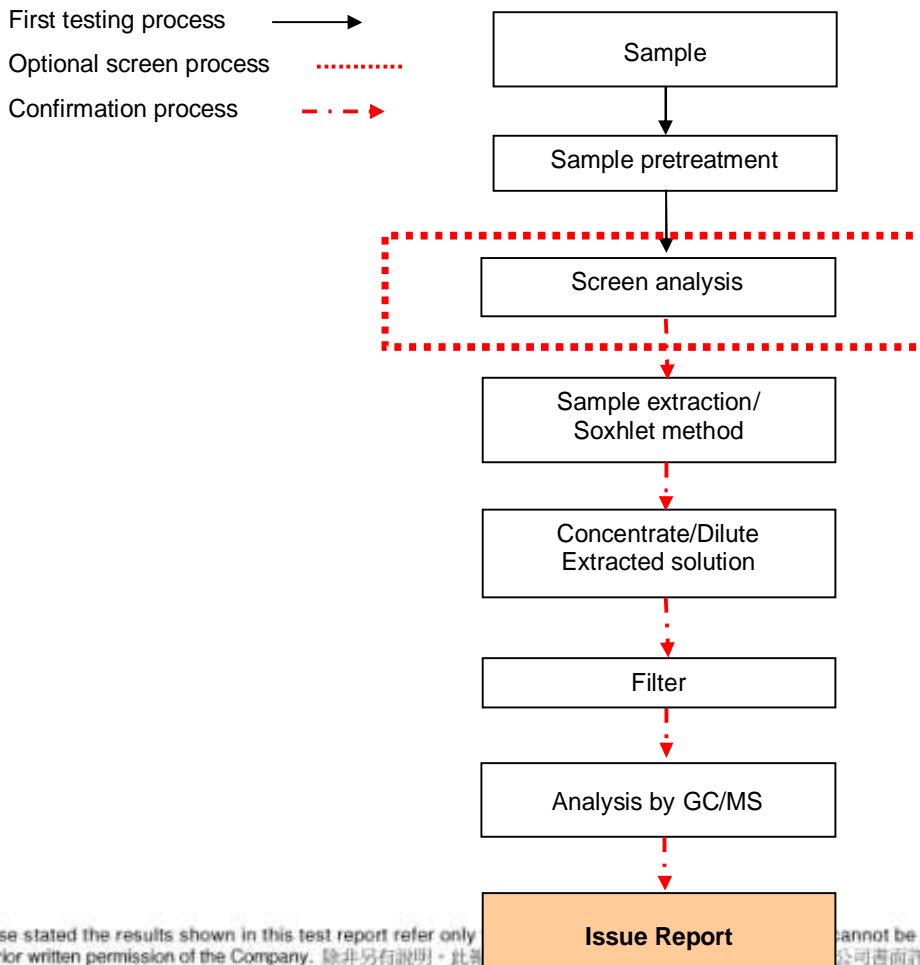
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## PBB/PBDE analytical FLOW CHART

- 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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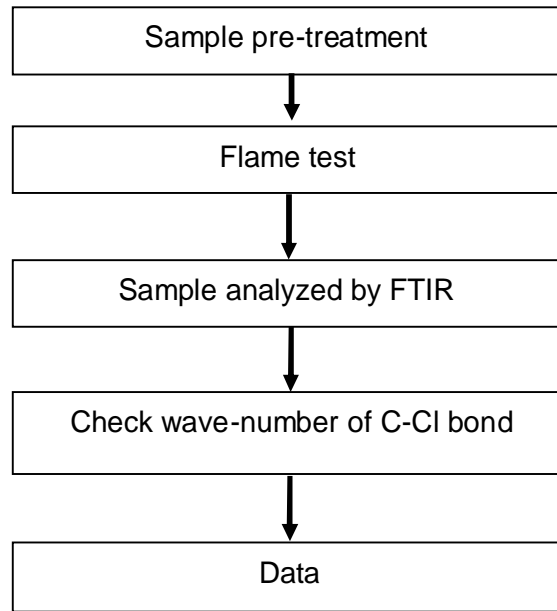
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## Analysis flow chart for determination of PVC in polymer material

- 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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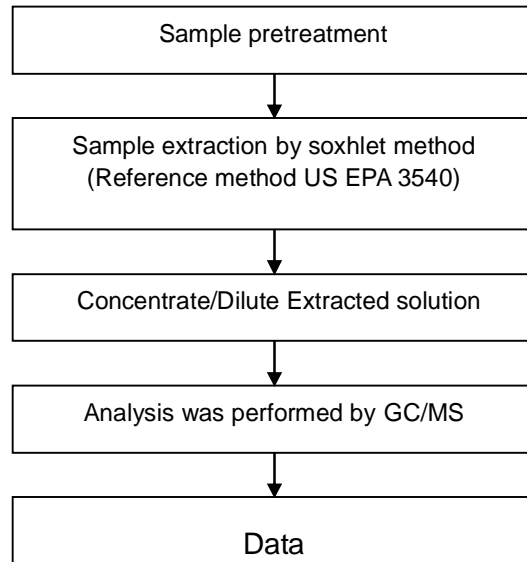
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## Analytical flow chart of benzotriazole content

- 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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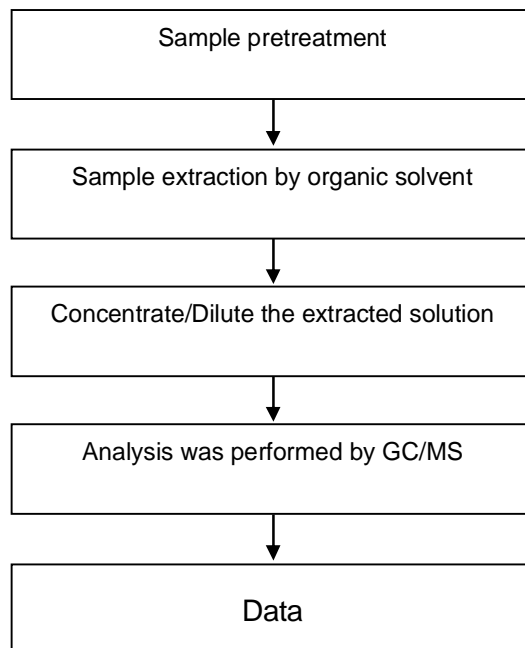
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## Chlorinated Flame retardant analytical flow chart

- 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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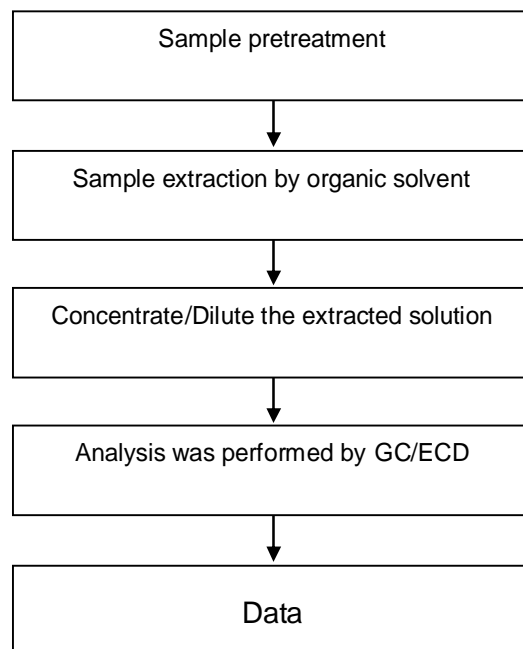
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## Chlorinated Flame retardant analytical flow chart

- 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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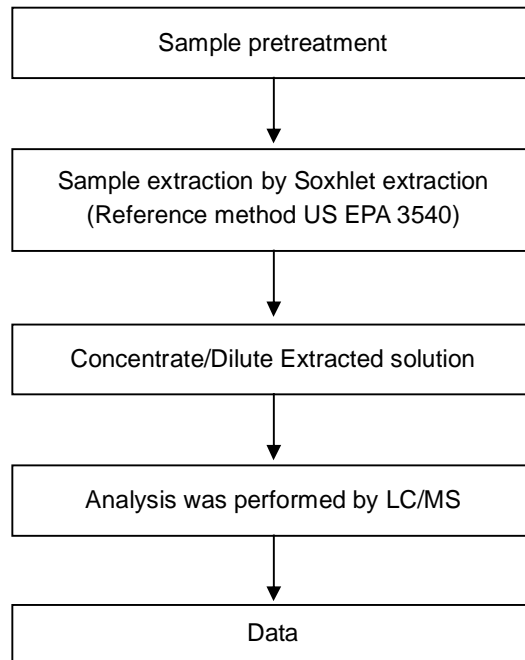
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## Analytical flow chart of PFOS content

- 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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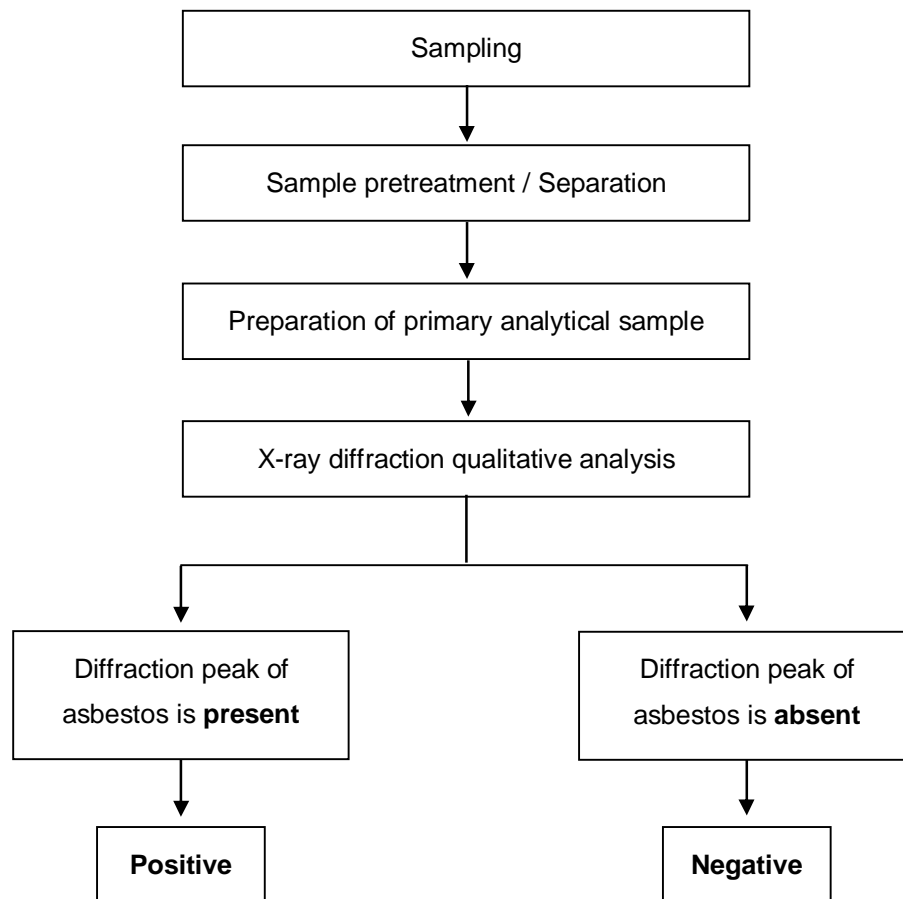
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## Analysis flow chart for determination of Asbestos

- 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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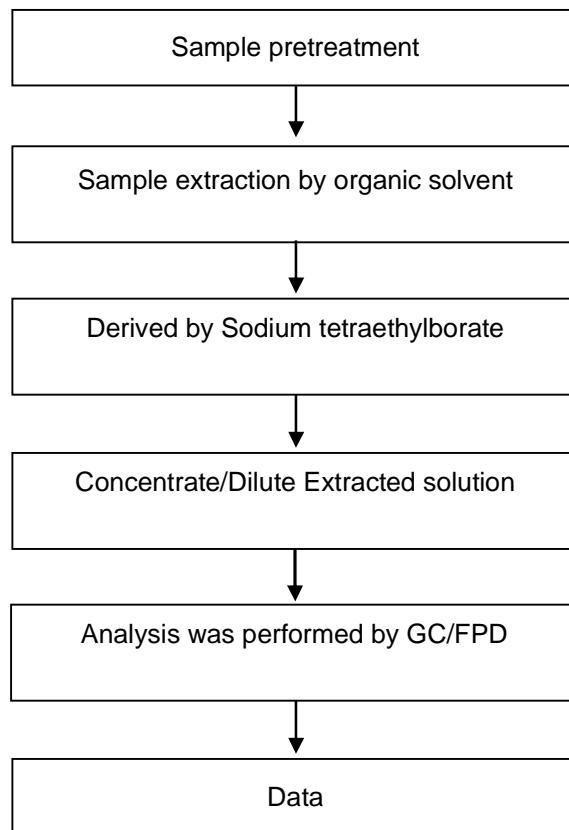
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## Analytical flow chart of Organic-Tin content

- 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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\*\* End of Report \*\*

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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. : ML S65D  
Sample Receiving Date : 2009/03/16  
Testing Period : 2009/03/16 TO 2009/3/24

=====  
**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 Report

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

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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.		
<b>Sum of PBBs</b>			-	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.		
<b>Sum of PBDEs</b>					-	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
<b>Asbestos</b>				
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
<b>Phthalates</b>				
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.
<b>Organic-TIN compounds</b>				
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.
<b>CHCs (Chlorinated hydrocarbon)</b>				
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.
<b>Hydrofluorcarbon, fluorinated hydrocarbon, fluorohydrocarbon (HFC)</b>				
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 (CHF2CHF2CF3)	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.
<b>PERFLUOROCARBON(PFC)</b>				
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.
<b>CFCs(Chlorofluorocarbons) &amp; HALON</b>				
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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Test Item (s)	Unit	Method	MDL	Result
				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.
<b>HCFC's (Hydrogenated)</b>				
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

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

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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.
<b>HBFC's (Hydrogenated bromofluorocarbons)</b>				
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.
<b>AZO</b>				
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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# Test Report

FORMOSA PLASTICS CORPORATION

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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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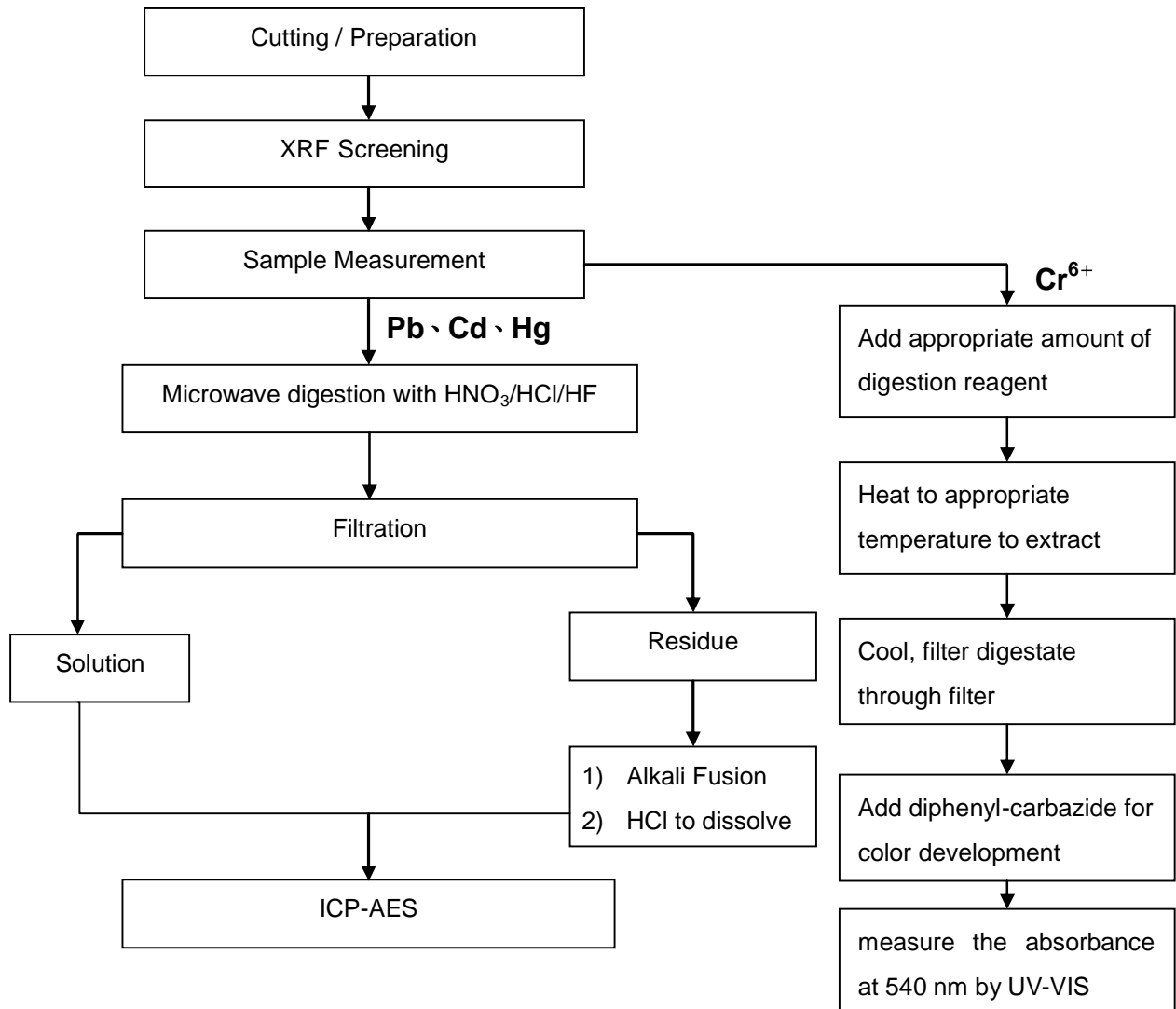
# Test Report

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 ( Cr<sup>6+</sup> 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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# Test Report

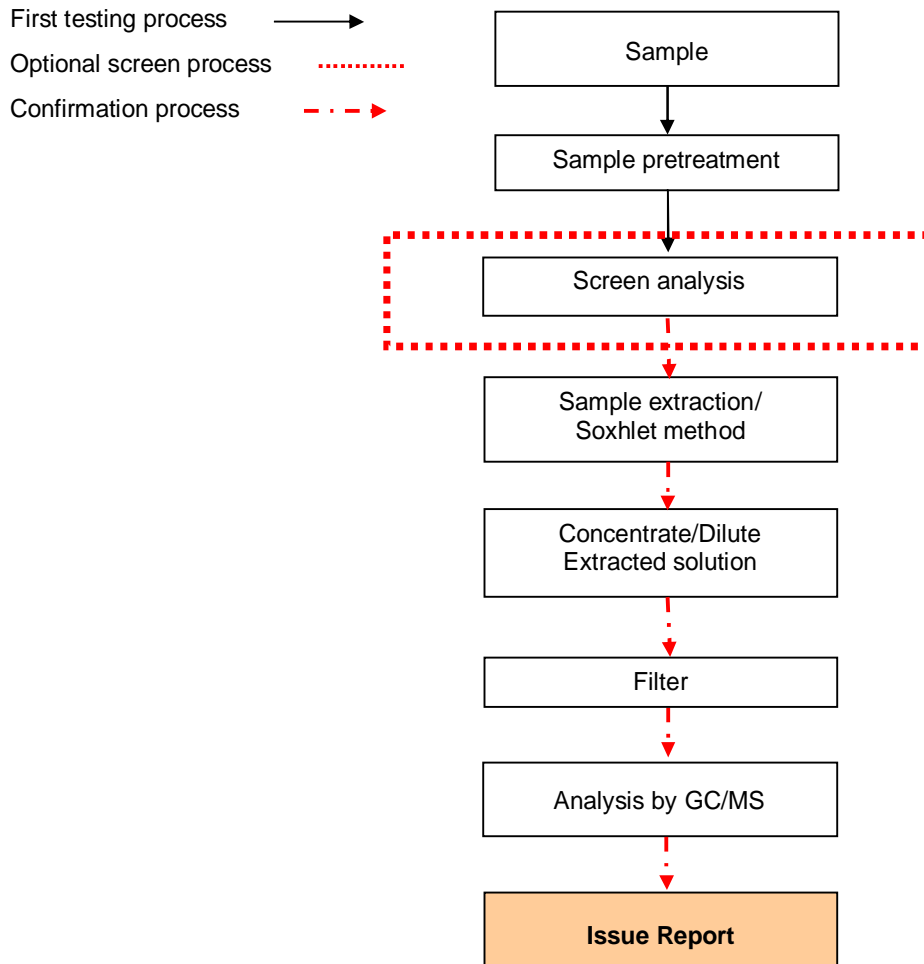
FORMOSA PLASTICS CORPORATION  
 NO.100, SHUI-GUAN RD., JEN-WU SHIANG, KAOHSIUNG COUNTY, TAIWAN R. O.  
 C.

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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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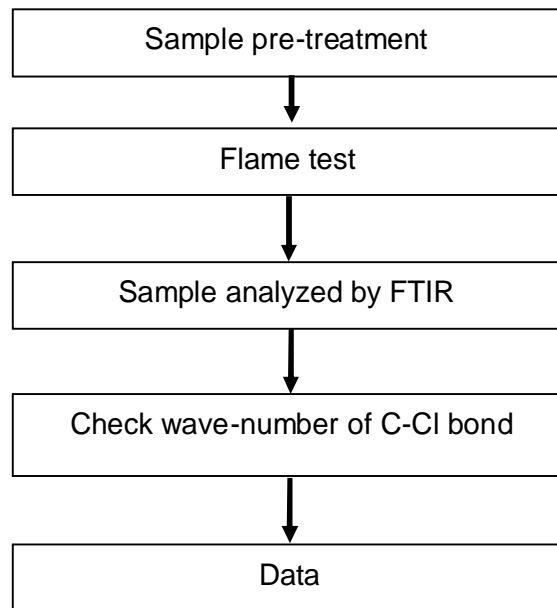
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## Analysis flow chart for determination of PVC in polymer material

- 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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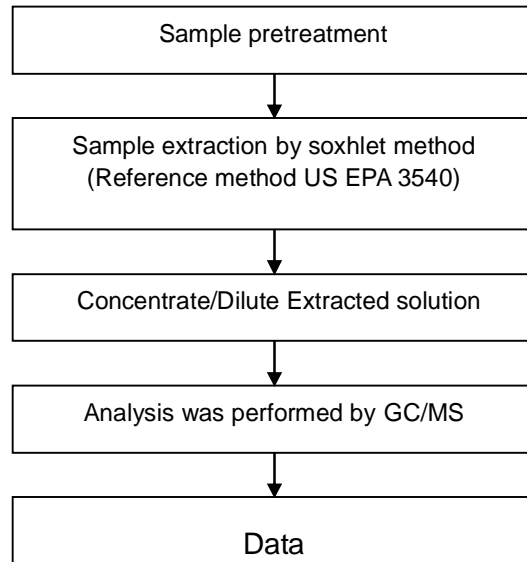
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## Analytical flow chart of benzotriazole content

- 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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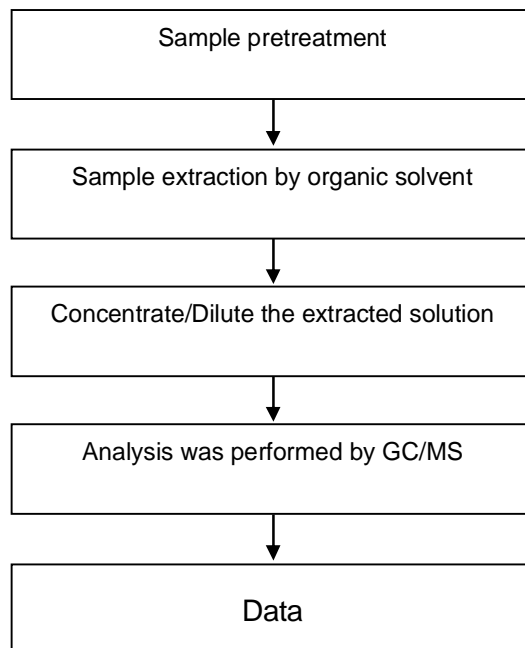
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## Chlorinated Flame retardant analytical flow chart

- 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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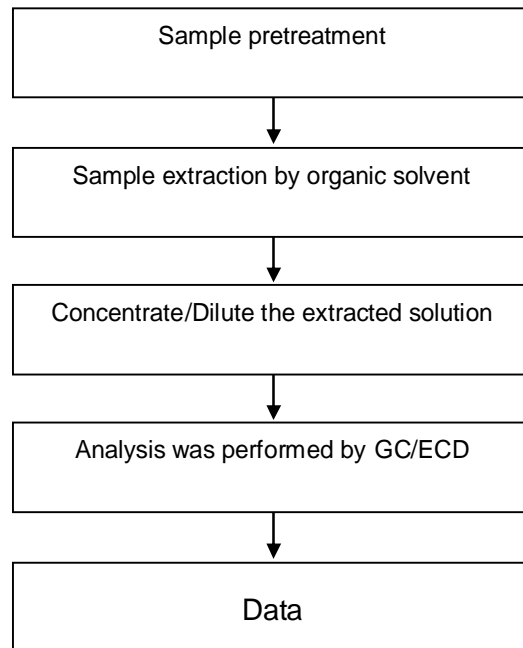
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## Chlorinated Flame retardant analytical flow chart

- 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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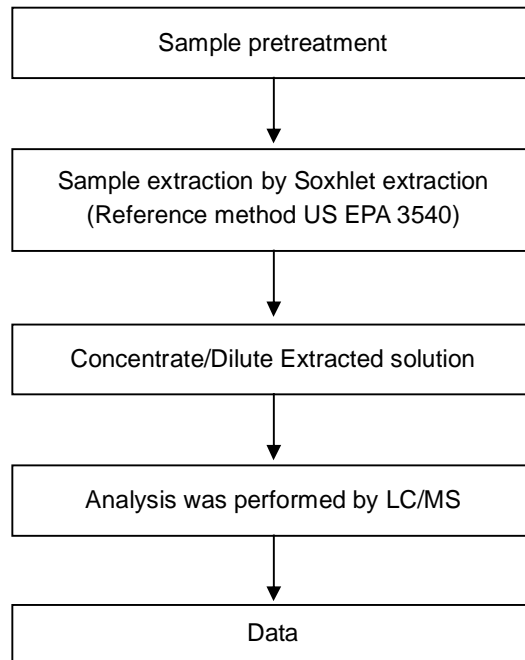
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## Analytical flow chart of PFOS content

- 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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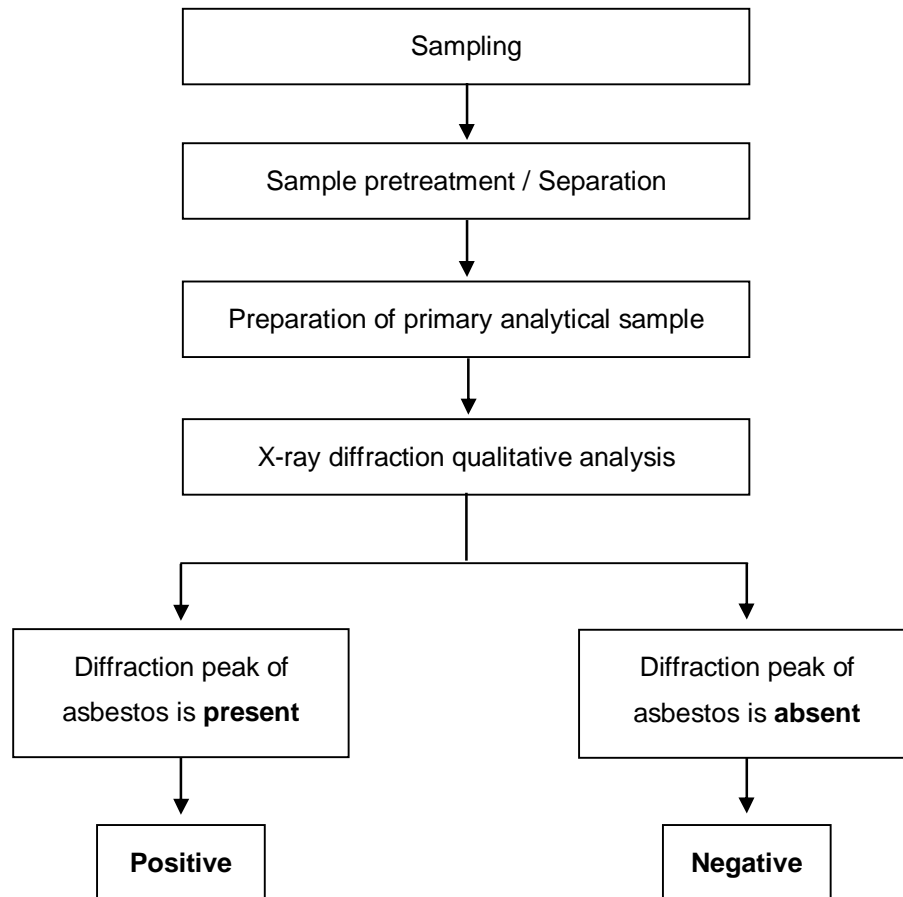
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## Analysis flow chart for determination of Asbestos

- 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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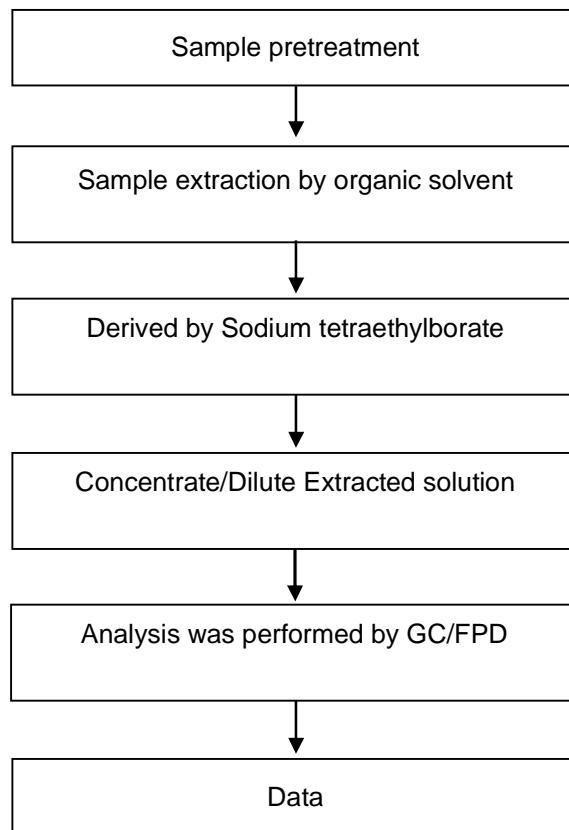
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### Analytical flow chart of Organic-Tin content

- 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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\*\* End of Report \*\*

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