

## Test Report

No. SHAMPLP2018826601

Date: 27 Sep 2020

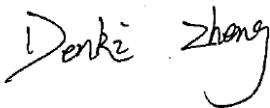
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JIANGYIN XINSHUN MICROELECTRONIC CO., LTD  
NO.78 CHANGSHAN RD.,JIANGYIN CITY,JIANGSU PRO.,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : the chip for using three layer diffusion semiconductor material

SGS Job No. : SHIN2009056818PC - SH  
Date of Sample Received : 18 Sep 2020  
Testing Period : 18 Sep 2020 - 23 Sep 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Denki Zheng  
Approved Signatory

scan to see the report



SHAMPLP2018826601



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-188266.001	Colorful solid piece

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017 and IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

### Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

### Halogen

Test Method : With reference to EN 14582: 2016 , analysis was performed by IC.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Fluorine (F)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

### Element(s)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Beryllium (Be)	mg/kg	5	ND
Nickel (Ni)	mg/kg	5	2417
Antimony (Sb)	mg/kg	10	ND
Antimony trioxide (Sb <sub>2</sub> O <sub>3</sub> ) ♦	mg/kg	12	ND
Arsenic (As)	mg/kg	10	ND



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Notes :

- (1) ♦ Calculated concentration of  $Sb_2O_3$  is based on the identified Sb

**Radioactive element**

Test Method : With reference to US EPA Method 3052:1996, analysis was performed by ICP-MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cesium (Cs)	mg/kg	1	ND*
Strontium (Sr)	mg/kg	1	ND*
Uranium (U)	mg/kg	1	ND*
Thorium (Th)	mg/kg	1	ND*

Notes :

- \* No radioactivity is detected by geiger counter

**Organic-tin compounds**

Test Method : With reference to ISO 17353: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tributyl tin (TBT)	mg/kg	0.02	ND
Bis(tributyltin) oxide (TBTO) ♦	mg/kg	0.02	ND
Tri-n-propyl tin(TPT)	mg/kg	0.02	ND
Monobutyl tin (MBT)	mg/kg	0.02	ND
Dibutyl tin (DBT)	mg/kg	0.02	ND
Tetrabutyltin (TeBT)	mg/kg	0.0	ND
Monooctyl tin (MOT)	mg/kg	0.02	ND
Diocetyl tin (DOT)	mg/kg	0.02	ND
Tricyclohexyl tin (TCyT)	mg/kg	0.02	ND
Triocetyl tin (TOT)	mg/kg	0.02	ND
Tripropyltin (TPT)	mg/kg	0.02	ND

Notes :

- (1) ♦ = TBTO is back calculated based on the worst-case scenario of TBT.



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**ODS**

Test Method : With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
<b>CFC</b>				
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	76-13-1	µg/g	0.1	ND
CFC-114	76-14-2	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112	76-11-9	µg/g	0.1	ND
CFC-112	76-12-0	µg/g	0.1	ND
CFC-113	354-58-5	µg/g	0.1	ND
CFC-114	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-215	76-17-5	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-216	1652-80-8	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
<b>HCFC</b>				
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND
HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-261	420-97-3	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
HCFC-262	420-99-5	µg/g	0.1	ND
<b>Halon</b>				
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND
<b>HBFC</b>				
CHF <sub>2</sub> Br	1511-62-2	µg/g	0.1	ND
CH <sub>2</sub> FBr	373-52-4	µg/g	0.1	ND
C <sub>2</sub> HFBr <sub>4</sub>		µg/g	0.1	ND
C <sub>2</sub> HF <sub>2</sub> Br <sub>3</sub>		µg/g	0.1	ND
C <sub>2</sub> HF <sub>3</sub> Br <sub>2</sub>	354-04-1	µg/g	0.1	ND
C <sub>2</sub> HF <sub>4</sub> Br		µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> FBr <sub>3</sub>		µg/g	0.1	ND
C <sub>2</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>2</sub>	75-82-1	µg/g	0.1	ND



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C <sub>2</sub> H <sub>2</sub> F <sub>3</sub> Br	421-06-7	µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> FBr <sub>2</sub>		µg/g	0.1	ND
C <sub>2</sub> H <sub>3</sub> F <sub>2</sub> Br	359-07-9	µg/g	0.1	ND
C <sub>2</sub> H <sub>4</sub> FBr	762-49-2	µg/g	0.1	ND
C <sub>3</sub> HFBr <sub>6</sub>		µg/g	0.1	ND
C <sub>3</sub> HF <sub>2</sub> Br <sub>5</sub>		µg/g	0.1	ND
C <sub>3</sub> HF <sub>3</sub> Br <sub>4</sub>		µg/g	0.1	ND
C <sub>3</sub> HF <sub>4</sub> Br <sub>3</sub>		µg/g	0.1	ND
C <sub>3</sub> HF <sub>5</sub> Br <sub>2</sub>		µg/g	0.1	ND
C <sub>3</sub> HF <sub>6</sub> Br		µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> FBr <sub>5</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>2</sub> Br <sub>4</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>3</sub> Br <sub>3</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>4</sub> Br <sub>2</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>2</sub> F <sub>5</sub> Br		µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> FBr <sub>4</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>2</sub> Br <sub>3</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>3</sub> Br <sub>2</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>3</sub> F <sub>4</sub> Br		µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> FBr <sub>3</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>2</sub> Br <sub>2</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>4</sub> F <sub>3</sub> Br		µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> FBr <sub>2</sub>		µg/g	0.1	ND
C <sub>3</sub> H <sub>5</sub> F <sub>2</sub> Br		µg/g	0.1	ND
C <sub>3</sub> H <sub>6</sub> FBr		µg/g	0.1	ND
<b>Others</b>				
Dibromofluoromethane	1868-53-7	µg/g	0.1	ND
Methyl bromide	74-83-9	µg/g	0.1	ND
Bromochloromethane	74-97-5	µg/g	0.1	ND
<b>HFC</b>				
HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee	-	µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
HFC-227ea	-	µg/g	0.1	ND
HFC-236cb	-	µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa	-	µg/g	0.1	ND
HFC-365mfc	-	µg/g	0.1	ND
<b>PFC</b>				
Perfluoromethane	75-73-0	µg/g	0.1	ND
Perfluoroethane	76-16-4	µg/g	0.1	ND
Perfluoropropane	76-19-7	µg/g	0.1	ND
Perfluorobutane	355-25-9	µg/g	0.1	ND
Perfluoropentane	678-26-2	µg/g	0.1	ND
Perfluorohexane	355-42-0	µg/g	0.1	ND
Perfluorocyclobutane	115-25-3	µg/g	0.1	ND
<b>CHC</b>				
1,3-dichloropropane	142-28-9	µg/g	0.1	ND
2,2-dichloropropane	594-20-7	µg/g	0.1	ND
Carbon tetrachloride	56-23-5	µg/g	0.1	ND
chloroethane	75-00-3	µg/g	0.1	ND
Chloroform	67-66-3	µg/g	0.1	ND
chloromethane	74-87-3	µg/g	0.1	ND
Cis-1,2-dichloroethene	156-59-2	µg/g	0.1	ND
Cis-1,3-dichloropropene	10061-01-5	µg/g	0.1	ND
Hexachlorobutadiene	87-68-3	µg/g	0.1	ND
Methylene chloride	75-09-2	µg/g	0.1	ND
Tetrachloroethene	127-18-4	µg/g	0.1	ND
Trans-1,2-dichloroethene	156-60-5	µg/g	0.1	ND
Trans-1,3-dichloropropene	10061-02-6	µg/g	0.1	ND
Trichloroethylene	79-01-6	µg/g	0.1	ND
1,1,1,2-tetrachloroethane	630-20-6	µg/g	0.1	ND
1,1,1-trichloroethane	71-55-6	µg/g	0.1	ND
1,1,2,2-tetrachloroethane	79-34-5	µg/g	0.1	ND
1,1,2-trichloroethane	79-00-5	µg/g	0.1	ND
1,1-dichloroethane	75-34-3	µg/g	0.1	ND
1,1-dichloroethene	75-35-4	µg/g	0.1	ND
1,1-dichloropropene	563-58-6	µg/g	0.1	ND
1,2,3-trichloropropane	96-18-4	µg/g	0.1	ND
1,2-dichloroethane	107-06-2	µg/g	0.1	ND
1,2-dichloropropane	78-87-5	µg/g	0.1	ND



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**Solvent Residue**

Test Method : With reference to US EPA Method 8260D: 2018 & US EPA Method 5000: 1996, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Pentachloroethane	mg/kg	5	ND
1,2-Dichloroethene	mg/kg	5	ND

**Alkylphenol Ethoxylates (APEOs) (Nonylphenol Ethoxylates (NPEOs), Octylphenol Ethoxylates (OPEOs)), Nonylphenol (NP) and Octylphenol (OP)**

Test Method : With reference to EPA 3550C:2007, analysis was performed by LC-MS.

Test Item(s)	Unit	MDL	001
Nonylphenol(NP)	mg/kg	10	ND
Octylphenol(OP)	mg/kg	10	ND
Nonylphenol ethoxylates (NPEOs)	mg/kg	30	ND
Octylphenol ethoxylates (OPEOs)	mg/kg	30	ND

Notes :

- (1) NP and NPEOs Reference Information: Entry 46 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2003/53/EC): Shall not be placed on the market, or used, as substances or in mixtures in concentrations equal to or greater than 0,1 % by weight for industrial and institutional cleaning, domestic cleaning, textiles and leather processing, emulsifier in agricultural teat dips, metal working, manufacturing of pulp and paper, cosmetic products, other personal care products and co-formulants in pesticides and biocides. Please refer to Regulation (EC) No 552/2009 to get more detail information
- (2) Confirmation was conducted by GC-MS where necessary

**Asbestos**

Test Method : With reference to NIOSH 9000:2015 and ISO 22262-1:2012. analysis was performed by X-ray diffractometer (XRD) and Polarized light microscope (PLM).



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Actinolite	77536-66-4	%	0.1	Negative
Amosite	12172-73-5	%	0.1	Negative
Anthophyllite	77536-67-5	%	0.1	Negative
Chrysotile	12001-29-5 132207-32-0	%	0.1	Negative
Crocidolite	12001-28-4	%	0.1	Negative
Tremolite	77536-68-6	%	0.1	Negative

### Notes :

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

### Red Phosphorus

Test Method : SGS in house method(SHTC- CHEM- SOP -342-T), Analysis was performed by ICP-OES and Pyrolysis-GC/MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Red Phosphorus	mg/kg	500	ND

### Notes :

For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

### Tris(2,3-dibromopropyl) phosphate(TDBPP/TRIS), Bis (2,3-dibromopropyl) phosphate

Test Method : SGS in-house method (SHTC-CHEM-SOP-102-T), analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Bis (2,3-dibromopropyl) phosphate	5412-25-9	mg/kg	5	ND
Tris(2,3-dibromopropyl) phosphate(TDBPP/TRIS)	126-72-7	mg/kg	5	ND



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**Formaldehyde**

Test Method : With reference to ISO 17226-1:2018, analysis was performed by HPLC-DAD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Formaldehyde	mg/kg	16	ND

**Bisphenol-A**

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-DAD-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Bisphenol-A	mg/kg	1	ND

**Cationic Surfactants**

Test Method : With reference to US EPA Method 3550C:2007, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
DTDMAC、DODMAC/DSDMAC、DHTDMAC	mg/kg	40	ND
DTDMAC	mg/kg	20	ND
DODMAC/DSDMAC	mg/kg	10	ND
DHTDMAC	mg/kg	10	ND

**Triclosan**

Test Method : With reference to EPA 3550C: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Triclosan	mg/kg	10	ND

**Decabromodiphenyl ethane (DeBDethane)**



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Test Method : With reference to US EPA 8270D: 2014/3550C: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Decabromodiphenyl ethane	84852-53-9	mg/kg	25	ND

### PVC (Polyvinyl chloride)

Test Method : SGS in-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR-HATR.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
PVC	9002-86-2	-	-	Negative

Notes :

(1) Negative=Undetectable,Positive=Detectable

### Tetrabromobisphenol A (TBBP-A)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

### Polychlorinated Terphenyls (PCTs)

Test Method : With reference to US EPA 8082A: 2007, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Aroclor 5432	mg/kg	5	ND
Aroclor 5442	mg/kg	5	ND
Aroclor 5460	mg/kg	5	ND

### Muskylene and Musketone

Test Method : With reference to US EPA 3550C:2007, analysis was performed by GC-MS



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Test Item(s)	Unit	MDL	001
Musk Xylene	mg/kg	10	ND
Musk Ketone	mg/kg	10	ND

**Sensorial Examination - Odour Grade Test**

Test Method : With reference to PV3900-2000 method.

**Sample 001:**

Storage Condition Variant	Condition 1	Condition 2	Condition 3
1	Grade 2.0	Grade 2.5	Grade 3.5
2	Grade 2.0	Grade 2.5	Grade 3.5
3	Grade 2.5	Grade 3.0	Grade 3.5
4	Grade 2.5	Grade 2.5	Grade 3.0
5	Grade 2.5	Grade 3.0	Grade 3.5
Average	Grade 2.5	Grade 2.5	Grade 3.5

1) Nomenclature for Evaluation Scale:

Evaluation Scale	Description
Grade 1	Not perceptible
Grade 2	Perceptible, not offensive
Grade 3	Clearly perceptible, but not yet offensive
Grade 4	Offensive
Grade 5	Strongly offensive
Grade 6	Unbearable

2) Nomenclature for Test Specimen Variant:

Variant	Application
A	Clips, plugs, grommets and other small parts
B	Armrests, ashtrays, grab handles, gearshift lever bellows and other medium-sized components
C	Insulation materials, films, leather, covering materials, foams, carpets and other large surface area materials

3) Nomenclature for Storage Condition Variant:

Variant	Temperature	Aging Duration
1	(23 ± 2)°C	(24 ± 1) h
2	(40 ± 2)°C	(24 ± 1) h
3	(80 ± 2)°C	2h± 10 min.

**Azo Dyes**

Test Method : According to Ref. EN 14362-1:2012- Analysis was conducted with GC-MS/HPLC-DAD.



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND
2-naphthylamine	91-59-8	mg/kg	5	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	ND
p-cresidine	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg	5	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND
O-Anisidine	90-04-0	mg/kg	5	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND

### Conclusion

\*\*

### Notes :

- (1) The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.
- (2) \*\* = For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is only applicable for textile and the result is only for client's information.
- (3) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants



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used.

(4) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

(5) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

**Phthalates Content**

Test Method : With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.01	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%	0.003	ND

**Benzotriazole UV Absorbant**

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
2-(3,5-Di-tert-butyl-2-hydroxyphenyl) benzotriazole (UV-320) (CAS No: 3846-71-7)	mg/kg	5	ND
2-(3',5'-Di-tert-butyl-2'-hydroxyphenyl)-5-chloro benzotriazole (UV-327) (CAS No: 3864-99-1)	mg/kg	5	ND
2-(2'-hydroxy-3',5'-di-tert- amylphenyl) benzotriazole (UV-328) (CAS No: 25973-55-1)	mg/kg	5	ND
TinUVin 350 (UV-350) (CAS No: 36437-37-3)	mg/kg	5	ND

**Tetrachlorophenol (TeCP) and Trichlorophenol (TCP)**

Test Method : With reference to LFGB § 64 BVL B 82.02.08:2001, analysis was performed by GC-ECD or GC-MS.



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<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP)	mg/kg	0.05	ND
2,4,6-Trichlorophenols(2,4,6-TCP)	mg/kg	0.05	ND
2,3,6-Trichlorophenols(2,3,6-TCP)	mg/kg	0.05	ND
2,3,5-Trichlorophenols(2,3,5-TCP)	mg/kg	0.05	ND
2,4,5-Trichlorophenols(2,4,5-TCP)	mg/kg	0.05	ND
2,3,4-Trichlorophenols(2,3,4-TCP)	mg/kg	0.05	ND
3,4,5-Trichlorophenols(3,4,5-TCP)	mg/kg	0.05	ND
Trichlorophenol (TriCP)	mg/kg	-	ND

**Volatile Organic Compounds (VOCs)**

Test Method : With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Chloroform	67-66-3	µg/g	1	ND
1,1,2,2-Tetrachloroethane	79-34-5	µg/g	1	ND
1,1,1,2-Tetrachloroethane	630-20-6	µg/g	1	ND
1,1,2-Trichloroethane	79-00-5	µg/g	1	ND
1,1-Dichloroethane	75-34-3	µg/g	1	ND
Dichloromethane	75-09-2	µg/g	1	ND
1,1-Dichloroethylene	75-35-4	µg/g	1	ND
Carbon tetrachloride	56-23-5	µg/g	1	ND
Tetrachloroethylene	127-18-4	µg/g	1	ND

**Polycyclic aromatic hydrocarbons (PAHs)**

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)pyrene(BaP)	1	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	1	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	1	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	1	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	1	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	1	mg/kg	0.1	ND
Chrysene(CHR)	1	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	1	mg/kg	0.1	ND



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Test Item(s)	Limit	Unit	MDL	001
Benzo(g,h,i)perylene(BPE)	1	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	1	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	50	mg/kg	-	ND
Naphthalene(NAP)	10	mg/kg	0.1	ND
Sum of 15 PAHs	50	mg/kg	-	ND
Material Category	-	-	-	3

Notes :

As per client information, the tested sample is not children product which is under the directive of ProdSG.



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**AfPS ( German commission for Product Safety ) : PAHs requirements**

Parameter Unit : mg/kg	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
<b>Sum of 15 PAHs</b>	< 1	< 5	< 10	< 20	< 50

Note:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

**Remark:** The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

**Glycol ether content**

Test Method : With reference to US EPA method 3550C:2007. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
EGDME	110-71-4	mg/kg	10	ND
EGME	109-86-4	mg/kg	10	ND
EGEE	110-80-5	mg/kg	10	ND
1PG2MEA	70657-70-4	mg/kg	10	ND
EGMEA	110-49-6	mg/kg	10	ND
EGEEA	111-15-9	mg/kg	10	ND
DEGME	111-77-3	mg/kg	10	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
DEGDME	111-96-6	mg/kg	10	ND
TEGDME	112-49-2	mg/kg	10	ND



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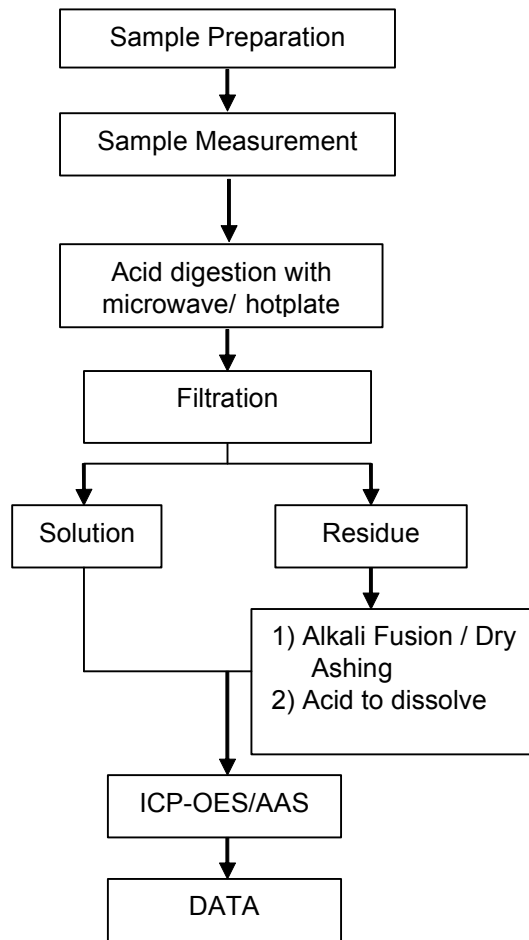
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Elements (IEC62321) Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song
- 2) Name of the person in charge of testing: Luna Xu/Bob Zhang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.



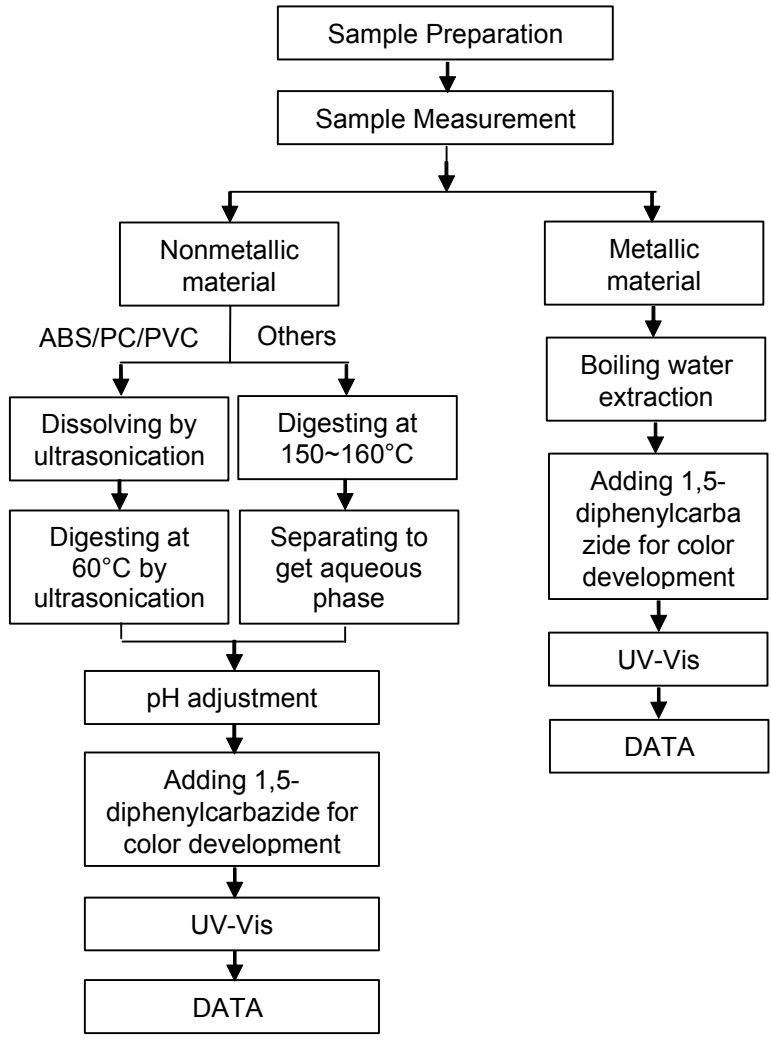
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**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**

- 1) Name of the person who made testing: Alex Wang
- 2) Name of the person in charge of testing: Xiaolong Yang



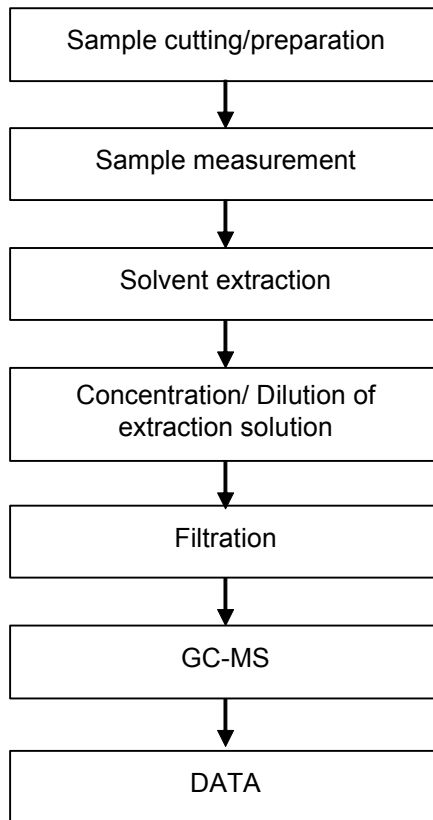
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PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra Ma



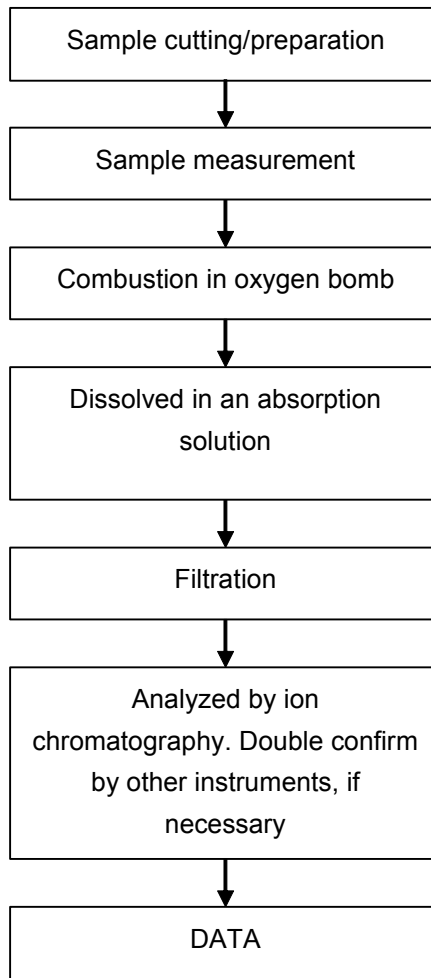
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**Halogen Testing (oxygen bomb) Flow Chart**

- 1) Name of the person who made testing: Kevin Xu
- 2) Name of the person in charge of testing: Allen Chen



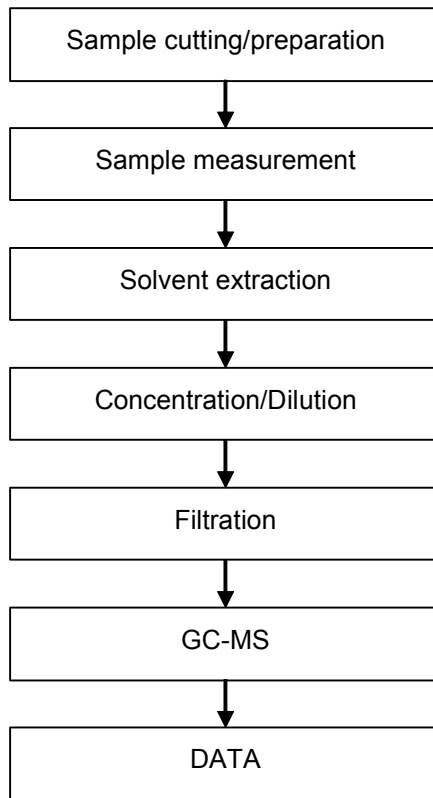
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### PCT Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang



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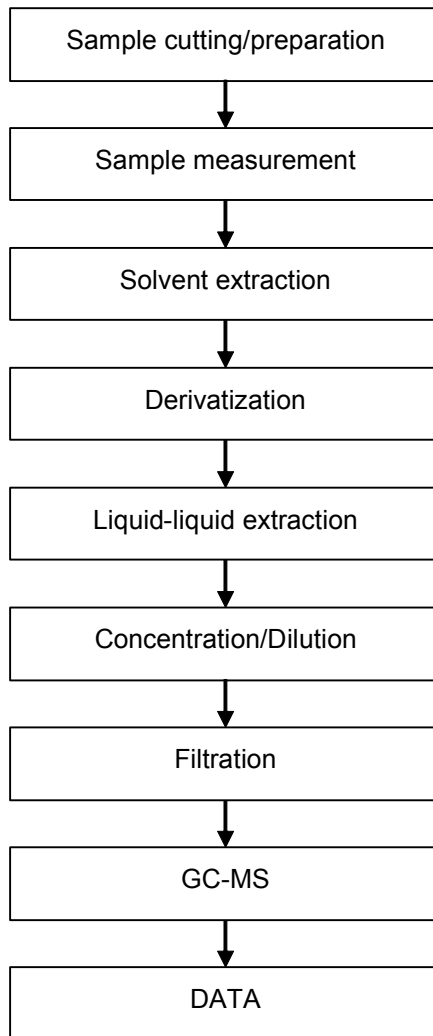
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### Organotin Testing Flow Chart

- 1) Name of the person who made testing: Liyas Wang
- 2) Name of the person in charge of testing: Myra Ma



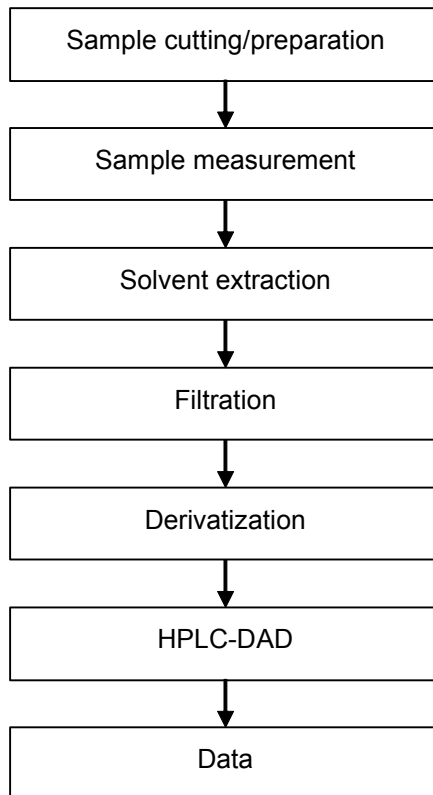
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Formaldehyde Testing Flow Chart

- 1) Name of the person who made testing: Shuter Shu
- 2) Name of the person in charge of testing: Sunny Sun



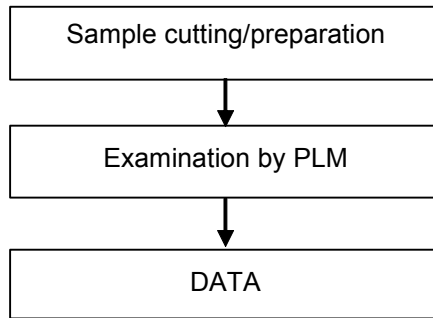
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### Asbestos Testing Flow Chart

- 1) Name of the person who made testing: Roger Hu/Irene Zhang/Ella Zhu
- 2) Name of the person in charge of testing: Grace Chen



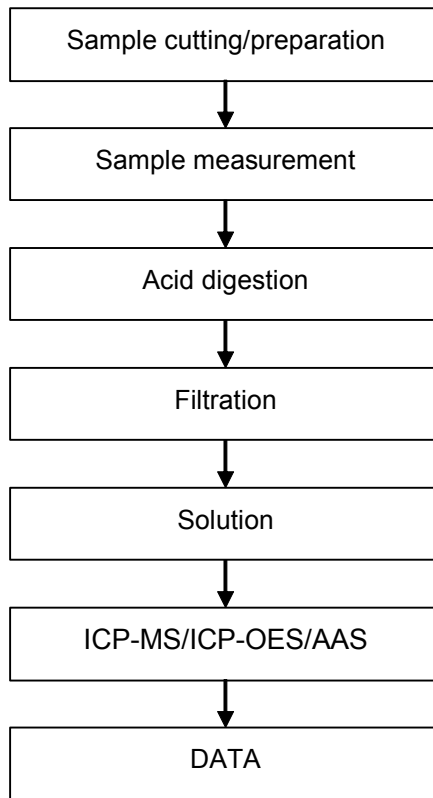
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Elements Testing Flow Chart

- 1) Name of the person who made testing: Meria Jin/Sielina Song
- 2) Name of the person in charge of testing: Luna Xu/Bob Zhang



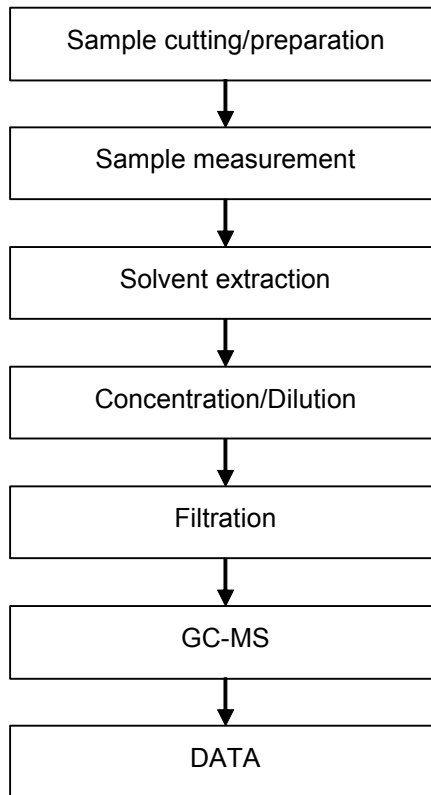
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**Benzotriazole Testing Flow Chart**

- 1) Name of the person who made testing: Nina Fang
- 2) Name of the person in charge of testing: Jessy Huang



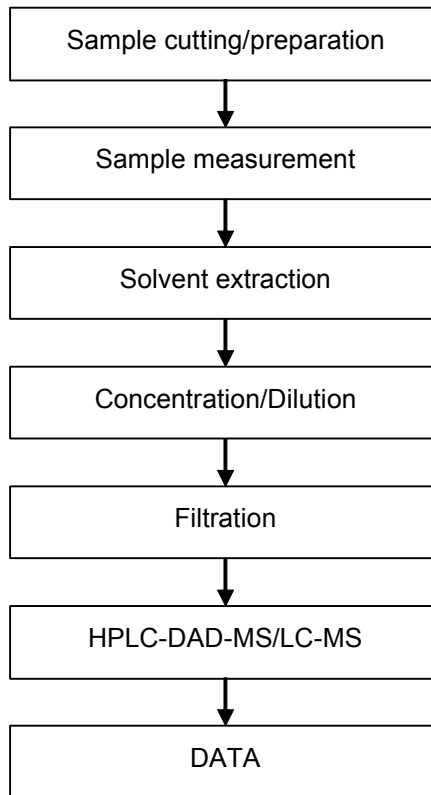
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**BPA Testing Flow Chart**

- 1) Name of the person who made testing: Joe Qiao
- 2) Name of the person in charge of testing: Richer Yu



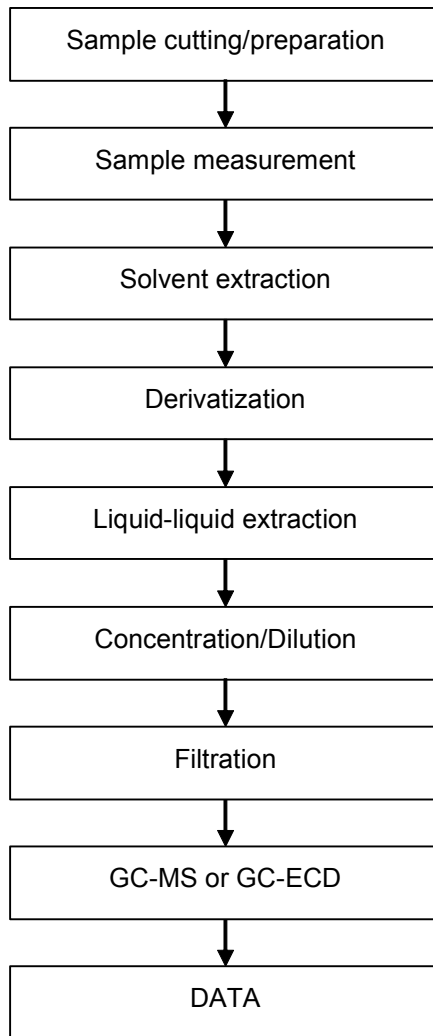
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**Chlorinated phenol Testing Flow Chart**

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang



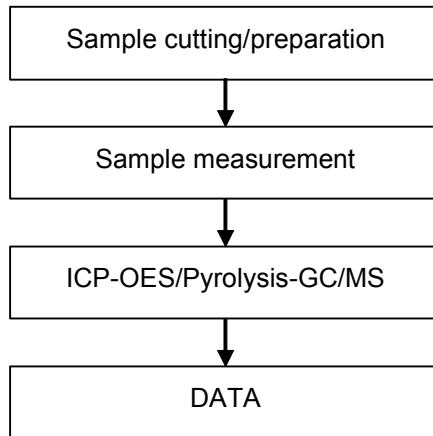
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### Red Phosphorus Testing Flow Chart

- 1) Name of the person who made testing: Irene Zhang/ Roger Hu
- 2) Name of the person in charge of testing: Grace Chen



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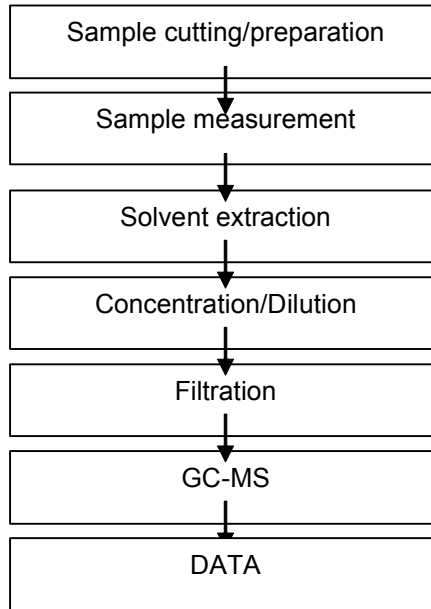
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Musk Xylene / Musk Ketone Testing Flow Chart

- 1) Name of the person who made testing: David Dai
- 2) Name of the person in charge of testing: Jessy Huang



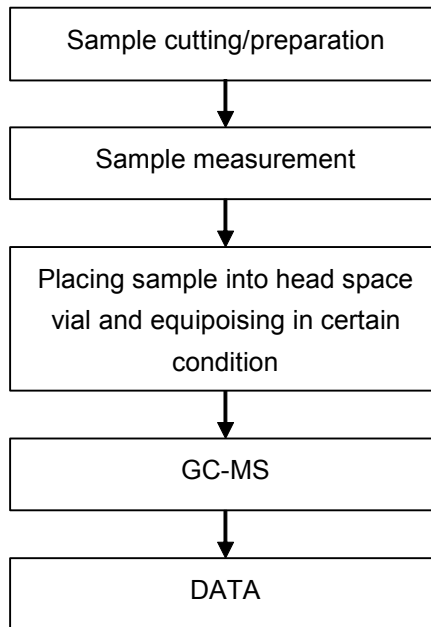
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VOC Testing Flow Chart

- 1) Name of the person who made testing: William Chen
- 2) Name of the person in charge of testing: Judy Li



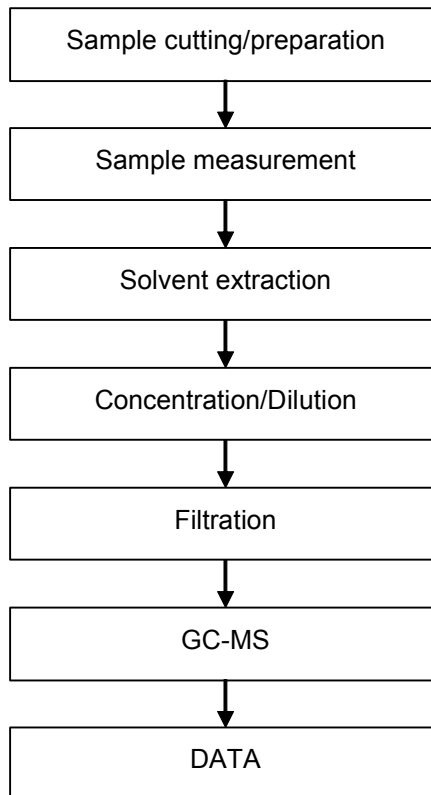
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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Nina Fang
- 2) Name of the person in charge of testing: Jessy Huang



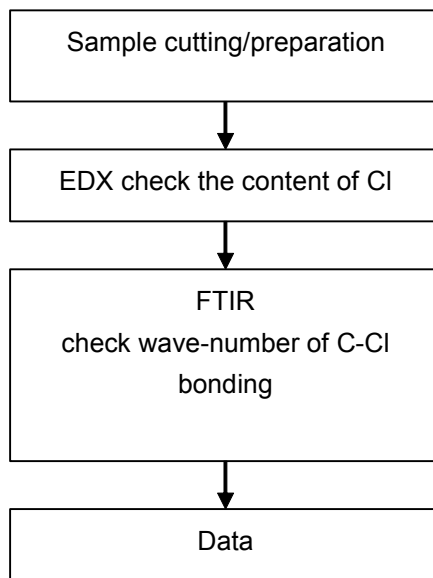
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PVC Testing Flow Chart

- 1) Name of the person who made testing: Irene Zhang/ Roger Hu
- 2) Name of the person in charge of testing: Grace Chen



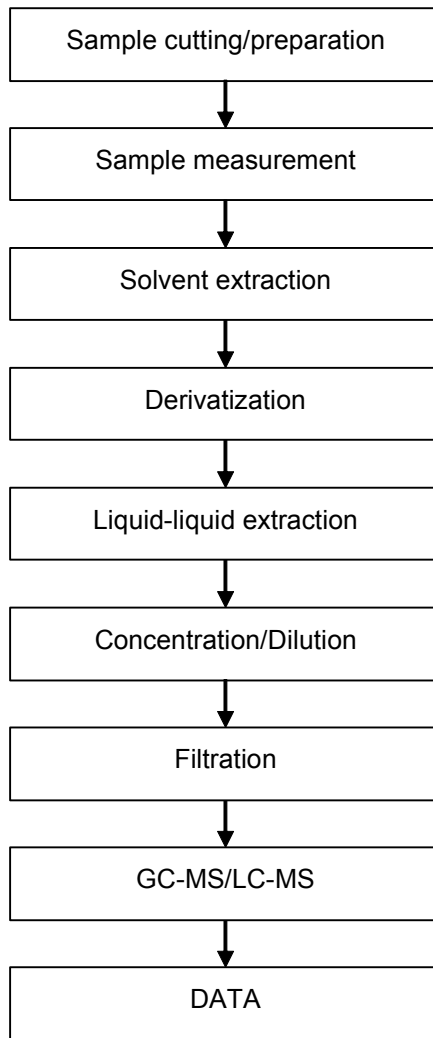
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TBBP-A Testing Flow Chart

- 1) Name of the person who made testing: Gary Xu
- 2) Name of the person in charge of testing: Myra Ma



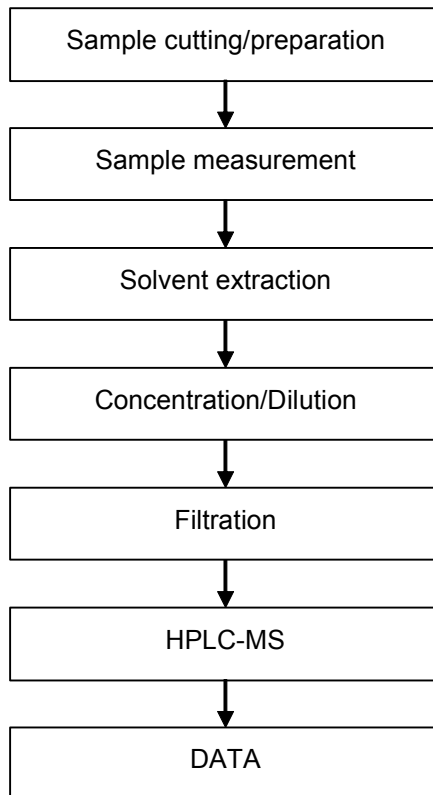
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NP / OP / NPEOs / OPEOs Testing Flow Chart

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- 2) Name of the person in charge of testing: Richer Yu



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