

## Test Report

No. CANEC1716302223

Date: 04 Sep 2017

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ZHEJIANG GUANHAO FUNCTIONAL MATERIALS CO.,LTD  
NO.888,CANGQING ROAD,NEWCANG TOWN,PINGHU,ZHEJIANG,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BOPP Film Label

SGS Job No. : CP17-046314 - GZ

Model No. : F1CG3

Client Ref. Info. : Be Used For:F0380,F0382,FG203,FJ000,F0480,F0580,F1000,  
F1080,F1180,F1181,F1280,F1380,F1480,F1281,F1186,F1AG3,  
F1MG3,FJ100,F4CG3,F4180,F4181,F4182,F4183,F4184,F4MG3,  
F4CT2,F5CG3,F5510,F6CG3,F7CG3,F8CG3,F8180,F8680,F8080,  
F8780,F8380,F8583,F8186,F8AG3,F8AG7,F9CG3,F9CP1,F9AG3,  
F9MG3,F9CG7,F5CG7,F7CG7,F4CT1,F5CP1,F5881,F5882,F4780,  
F8880,F8881,F8882,F000A,FBHG3,FBHG7,FB485,FP680,FP681,  
FP682,FL680,FL683,F5MG3,F8MG3,F8MG7,F8LG3,F001A,F5AG3,  
F6AP1,F6AP3,FBAG3,FR001,FR002,FPCG3,FDAP1,FDHP1,FZ670,  
FM168,FM875

Main Substance : BOPPFilm, Filmic Adhesive, General Hot Melt Adhesive, Permanent  
Glue,All-weather Adhesive, Frozen Hot Melt Adhesive,Low-temp Hot  
Melt Adhesive,Removable Adhesive, Glassine Release Paper, PET  
Release Film, Film Release Paper

Date of Sample Received : 17 Aug 2017

Testing Period : 17 Aug 2017 - 30 Aug 2017

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).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead,  
Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),  
Polybrominated diphenyl ethers (PBDEs) and Phthalates such as  
Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl  
phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by  
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*violet*

Violet, Shi  
Approved Signatory



Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description                  |
|--------------|------------------|------------------------------|
| SN1          | CAN17-163022.001 | White paper(1#)              |
| SN2          | CAN17-163022.002 | White paper(2#)              |
| SN3          | CAN17-163022.003 | Transparent film(3#)         |
| SN4          | CAN17-163022.010 | White film(semi-product,10#) |
| SN5          | CAN17-163022.013 | White liquid(13#)            |
| SN6          | CAN17-163022.014 | Brown soft material(14#)     |
| SN7          | CAN17-163022.015 | White liquid(15#)            |
| SN8          | CAN17-163022.016 | Yellow soft material(16#)    |
| SN9          | CAN17-163022.017 | White liquid(17#)            |
| SN10         | CAN17-163022.018 | White liquid(18#)            |
| SN11         | CAN17-163022.019 | Bronw soft material(19#)     |

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 , IEC62321-5:2013, IEC62321-7-2:2017 , IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

| Test Item(s)               | Limit | Unit  | MDL | 001 | 002 | 003 |
|----------------------------|-------|-------|-----|-----|-----|-----|
| Cadmium (Cd)               | 100   | mg/kg | 2   | ND  | ND  | ND  |
| Lead (Pb)                  | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Mercury (Hg)               | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8   | ND  | ND  | ND  |
| Sum of PBBs                | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibromobiphenyl            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tribromobiphenyl           | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tetrabromobiphenyl         | -     | mg/kg | 5   | ND  | ND  | ND  |
| Pentabromobiphenyl         | -     | mg/kg | 5   | ND  | ND  | ND  |



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| Test Item(s)                        | Limit | Unit  | MDL | 001 | 002 | 003 |
|-------------------------------------|-------|-------|-----|-----|-----|-----|
| Hexabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Heptabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  | ND  |
| Octabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Nonabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  | ND  |
| Sum of PBDEs                        | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibromodiphenyl ether               | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tribromodiphenyl ether              | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tetrabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Pentabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Hexabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Heptabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Octabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Nonabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibutyl phthalate (DBP)             | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)        | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalates (DIBP)        | 1000  | mg/kg | 50  | ND  | ND  | ND  |

| Test Item(s)               | Limit | Unit  | MDL | 010 | 013 | 014 |
|----------------------------|-------|-------|-----|-----|-----|-----|
| Cadmium (Cd)               | 100   | mg/kg | 2   | ND  | ND  | ND  |
| Lead (Pb)                  | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Mercury (Hg)               | 1,000 | mg/kg | 2   | ND  | ND  | ND  |
| Hexavalent Chromium (CrVI) | 1,000 | mg/kg | 8   | ND  | ND  | ND  |
| Sum of PBBs                | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibromobiphenyl            | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tribromobiphenyl           | -     | mg/kg | 5   | ND  | ND  | ND  |
| Tetrabromobiphenyl         | -     | mg/kg | 5   | ND  | ND  | ND  |
| Pentabromobiphenyl         | -     | mg/kg | 5   | ND  | ND  | ND  |
| Hexabromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Heptabromobiphenyl         | -     | mg/kg | 5   | ND  | ND  | ND  |
| Octabromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Nonabromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromobiphenyl          | -     | mg/kg | 5   | ND  | ND  | ND  |
| Sum of PBDEs               | 1,000 | mg/kg | -   | ND  | ND  | ND  |
| Monobromodiphenyl ether    | -     | mg/kg | 5   | ND  | ND  | ND  |



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| <u>Test Item(s)</u>                 | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>010</u> | <u>013</u> | <u>014</u> |
|-------------------------------------|--------------|-------------|------------|------------|------------|------------|
| Dibromodiphenyl ether               | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether              | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromodiphenyl ether             | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibutyl phthalate (DBP)             | 1000         | mg/kg       | 50         | ND         | ND         | ND         |
| Butyl benzyl phthalate (BBP)        | 1000         | mg/kg       | 50         | ND         | ND         | ND         |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000         | mg/kg       | 50         | ND         | ND         | ND         |
| Diisobutyl Phthalates (DIBP)        | 1000         | mg/kg       | 50         | ND         | ND         | ND         |

| <u>Test Item(s)</u>        | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>015</u> | <u>016</u> | <u>017</u> |
|----------------------------|--------------|-------------|------------|------------|------------|------------|
| Cadmium (Cd)               | 100          | mg/kg       | 2          | ND         | ND         | ND         |
| Lead (Pb)                  | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Mercury (Hg)               | 1,000        | mg/kg       | 2          | ND         | ND         | ND         |
| Hexavalent Chromium (CrVI) | 1,000        | mg/kg       | 8          | ND         | ND         | ND         |
| Sum of PBBs                | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromobiphenyl          | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromobiphenyl            | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromobiphenyl           | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromobiphenyl         | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromobiphenyl         | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromobiphenyl          | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromobiphenyl         | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromobiphenyl          | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Nonabromobiphenyl          | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Decabromobiphenyl          | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Sum of PBDEs               | 1,000        | mg/kg       | -          | ND         | ND         | ND         |
| Monobromodiphenyl ether    | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Dibromodiphenyl ether      | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tribromodiphenyl ether     | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Tetrabromodiphenyl ether   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Pentabromodiphenyl ether   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Hexabromodiphenyl ether    | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Heptabromodiphenyl ether   | -            | mg/kg       | 5          | ND         | ND         | ND         |
| Octabromodiphenyl ether    | -            | mg/kg       | 5          | ND         | ND         | ND         |



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| Test Item(s)                        | Limit | Unit  | MDL | 015 | 016 | 017 |
|-------------------------------------|-------|-------|-----|-----|-----|-----|
| Nonabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Decabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  | ND  |
| Dibutyl phthalate (DBP)             | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Butyl benzyl phthalate (BBP)        | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000  | mg/kg | 50  | ND  | ND  | ND  |
| Diisobutyl Phthalates (DIBP)        | 1000  | mg/kg | 50  | ND  | ND  | ND  |

| Test Item(s)                        | Limit | Unit  | MDL | 018 | 019 |
|-------------------------------------|-------|-------|-----|-----|-----|
| Cadmium (Cd)                        | 100   | mg/kg | 2   | ND  | ND  |
| Lead (Pb)                           | 1,000 | mg/kg | 2   | ND  | ND  |
| Mercury (Hg)                        | 1,000 | mg/kg | 2   | ND  | ND  |
| Hexavalent Chromium (CrVI)          | 1,000 | mg/kg | 8   | ND  | ND  |
| Sum of PBBs                         | 1,000 | mg/kg | -   | ND  | ND  |
| Monobromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  |
| Dibromobiphenyl                     | -     | mg/kg | 5   | ND  | ND  |
| Tribromobiphenyl                    | -     | mg/kg | 5   | ND  | ND  |
| Tetrabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  |
| Pentabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  |
| Hexabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  |
| Heptabromobiphenyl                  | -     | mg/kg | 5   | ND  | ND  |
| Octabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  |
| Nonabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  |
| Decabromobiphenyl                   | -     | mg/kg | 5   | ND  | ND  |
| Sum of PBDEs                        | 1,000 | mg/kg | -   | ND  | ND  |
| Monobromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  |
| Dibromodiphenyl ether               | -     | mg/kg | 5   | ND  | ND  |
| Tribromodiphenyl ether              | -     | mg/kg | 5   | ND  | ND  |
| Tetrabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  |
| Pentabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  |
| Hexabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  |
| Heptabromodiphenyl ether            | -     | mg/kg | 5   | ND  | ND  |
| Octabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  |
| Nonabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  |
| Decabromodiphenyl ether             | -     | mg/kg | 5   | ND  | ND  |
| Dibutyl phthalate (DBP)             | 1000  | mg/kg | 50  | ND  | ND  |
| Butyl benzyl phthalate (BBP)        | 1000  | mg/kg | 50  | ND  | ND  |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000  | mg/kg | 50  | ND  | ND  |
| Diisobutyl Phthalates (DIBP)        | 1000  | mg/kg | 50  | ND  | ND  |



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Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series  
[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

**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>010</u> |
|---------------------|-------------|------------|------------|
| Fluorine (F)        | mg/kg       | 50         | ND         |
| Chlorine (Cl)       | mg/kg       | 50         | ND         |
| Bromine (Br)        | mg/kg       | 50         | ND         |
| Iodine (I)          | mg/kg       | 50         | ND         |

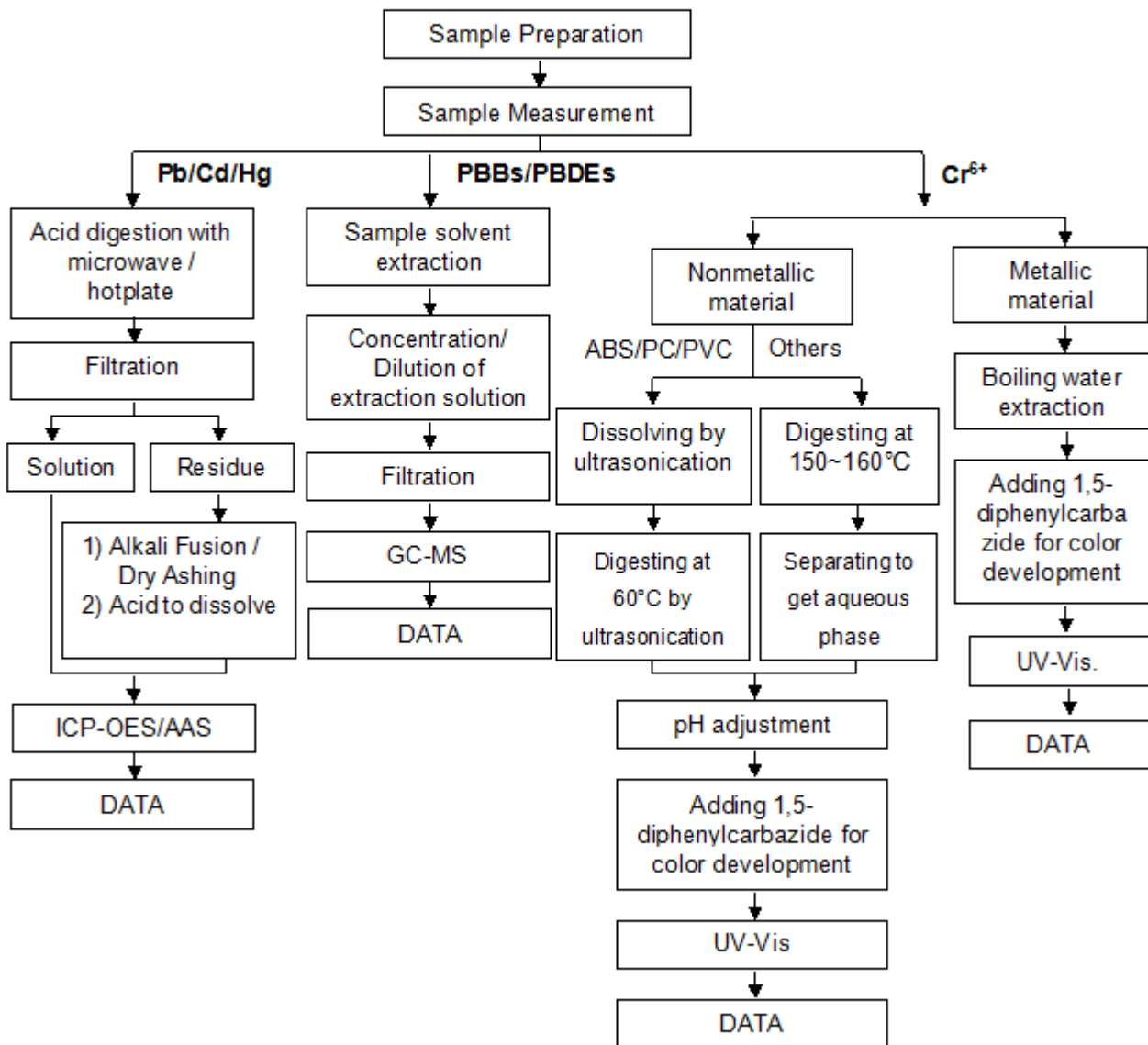
Remark : The result(s) 013,015,017,018 shown is/are of the total weight of wet sample.



**ATTACHMENTS**

**Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs Testing Flow Chart**

- 1) Name of the person who made testing: Edith Zhang / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Qiong Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).



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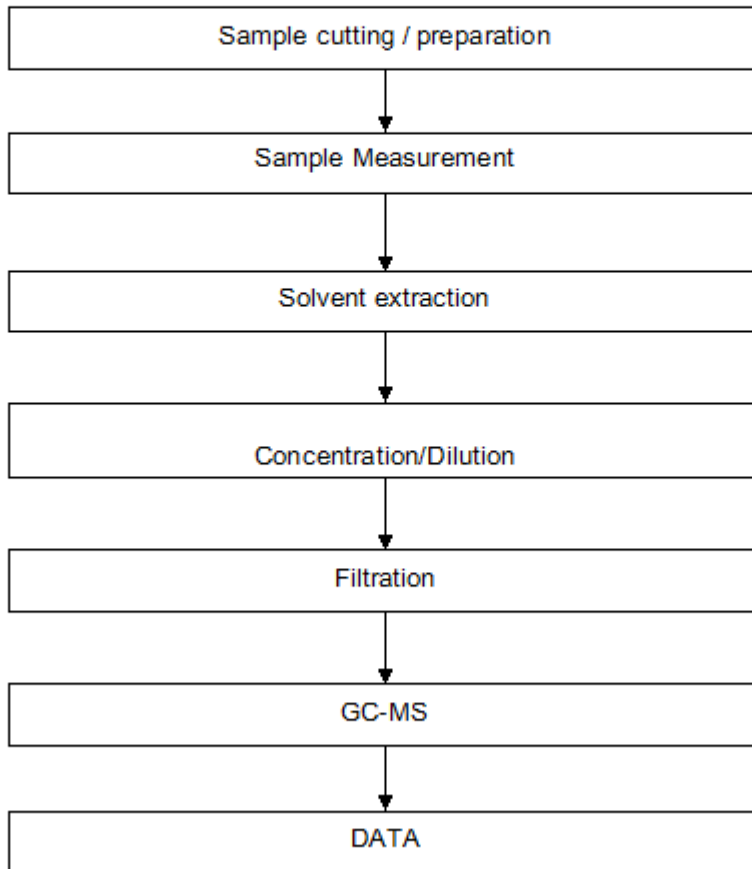
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**ATTACHMENTS**

**Phthalates Testing Flow Chart**

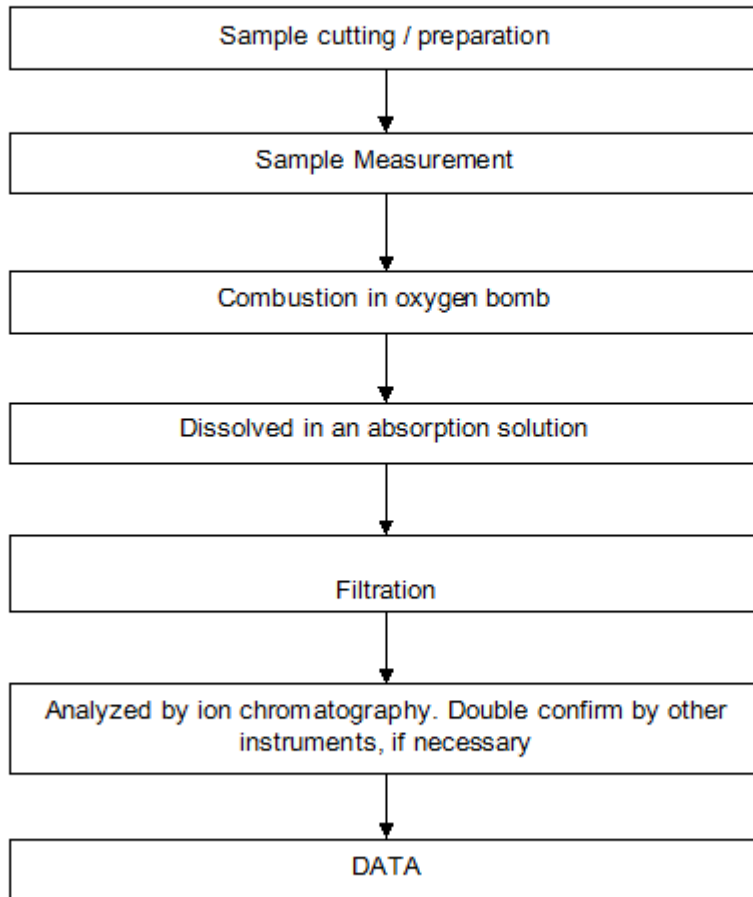
- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Qiong Liu



## ATTACHMENTS

### Halogen Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang



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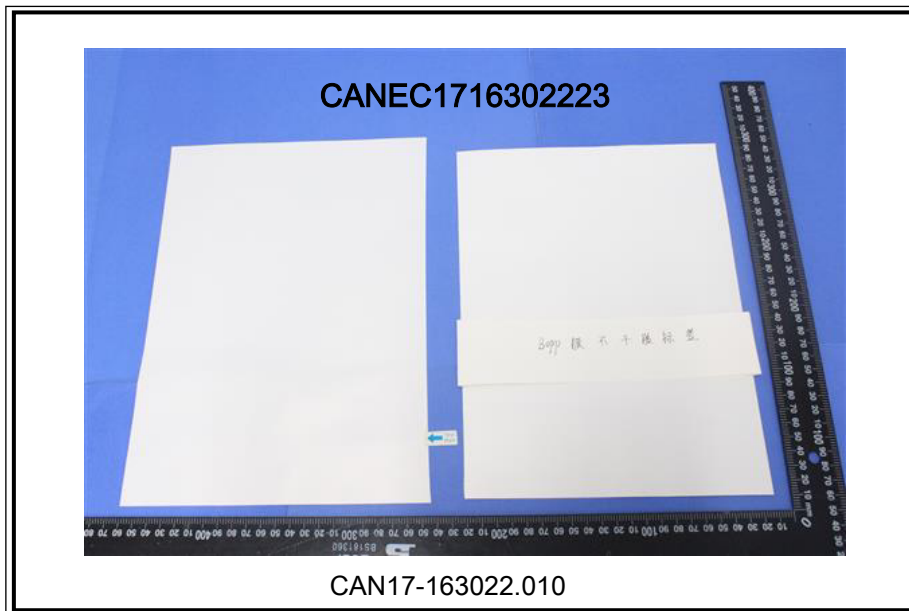
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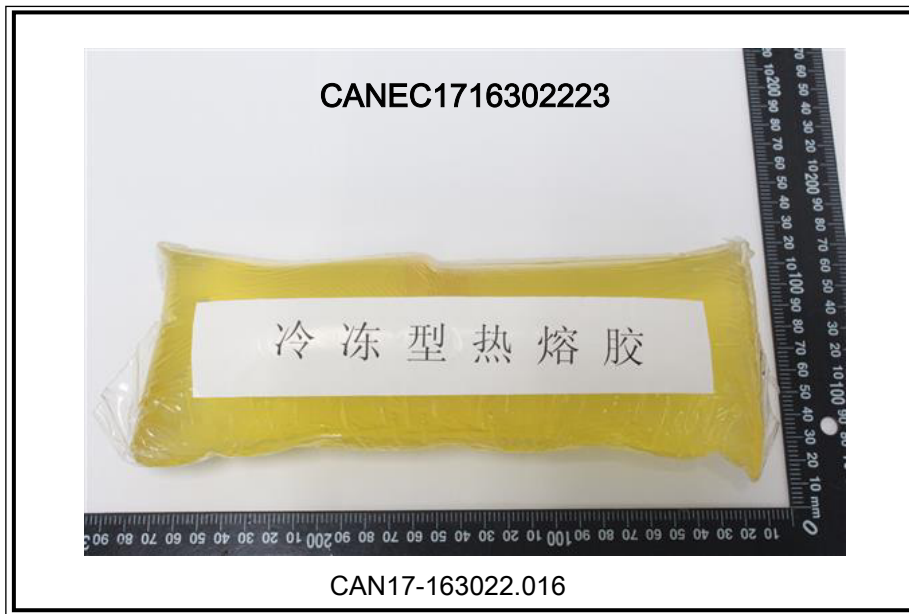




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