

Test Report Date: 01 Mar 2018 Page 1 of 14 No. CANEC1802628343

LECCO (ZHONGSHAN) ADHESIVE PRODUCTS CO.,LTD.

GUANGFU AVENUE, DONGSHENG TOWN, ZHONGSHAN CITY GUANGDONG PROVINCE, CHINA. LECCO (KAIPING) ADHESIVE PRODUCTS CO.,LTD

NO 7-8 FIVE DISTRICT, THE SECOND (CANGCHENG) INDUSTRIAL PARK, KAIPING CITY, JIANGMEN, GUANGDONG PROVINCE, CHINA.

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

film

SGS Job No.: CP18-005667 - GZ

Date of Sample Received: 05 Feb 2018

Testing Period: 05 Feb 2018 - 22 Feb 2018

Test Requested: As specified by client, selected parts of the submitted sample(s) for compliance

with Consumer Product Safety Improvement Act of 2008, CPSIA:

- Phthalates

Other test(s) as requested by client.

Test Method: Please refer to next page(s). Test Results: Please refer to next page(s).

Result Summary:

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
European Directive 94/62/EC and its amendments - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content	PASS
EN 71-3:2013+A2:2017-Migration of Certain Elements (Category III: Scrapped-off toy material)	PASS
American Society for Testing and Materials-ASTM F 963-16(Clause 4.3.5) -total Lead in Substrate Materials	See Results
Halogen	See Results
ASTM F 963-16 (Clause 4.3.5) & EN71 Part 3 : 1994 (including amendment A1:2000/ AC:2002)-Migration of Certain Elements.	See Results
CPSIA section 108 - Phthalates	PASS
Phthalate	See Results
PFOS (Perfluorooctane sulfonates)	See Results



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

Echo Yeung Echo Yeung

Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN18-026283.017 Transparent adhesive sheet

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+A1:2017, 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)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	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
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND

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

Notes:

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

European Directive 94/62/EC and its amendments - Total Lead, Cadmium, Mercury and Hexavalent **Chromium Content**

Test Method: With reference to GZTC CHEM-TOP-174-01. Analysis of Cadmium, Lead and Mercury was performed by ICP-OES. Analysis of Hexavalent Chromium (Cr(VI)) was performed by UV-Vis

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Cadmium (Cd)	-	mg/kg	5	ND
Lead (Pb)	-	mg/kg	5	ND
Hexavalent Chromium (CrVI)	-	mg/kg	5	ND
Mercury (Hg)	-	mg/kg	5	ND
Total (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND

EN 71-3:2013+A2:2017-Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method: With reference to EN 71-3:2013+A2:2017. Analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Soluble Aluminum(AI)	70000	mg/kg	50	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Boron(B)	15000	mg/kg	50	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND
Soluble Chromium (III) (Cr (III))	460	mg/kg	5	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	
Soluble Lead (Pb)	160	mg/kg	10	ND	
Soluble Antimony (Sb)	560	mg/kg	10	ND	
Soluble Selenium (Se)	460	mg/kg	10	ND	
Soluble Zinc (Zn)	46000	mg/kg	50	ND	
Soluble Strontium(Sr)	56000	mg/kg	50	ND	
Soluble Tin(Sn)	180000	mg/kg	4.9	ND	
Soluble Organic Tin	12	mg/kg	-	ND	
Soluble Chromium (VI) (Cr (VI))	0.2	mg/kg	0.18	ND	

Notes:

- 1. Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
- 2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2013+A2:2017.
- 3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2013+A2:2017.

American Society for Testing and Materials-ASTM F 963-16(Clause 4.3.5) -total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Total Lead (Pb)	100	mg/kg	20	ND

Halogen

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Fluorine (F)	-	mg/kg	50	ND
Chlorine (CI)	900	mg/kg	50	ND
Bromine (Br)	900	mg/kg	50	ND
lodine (I)	-	mg/kg	50	ND

Notes:

CI+Br < 1500mg/kg. The limit was submitted by applicant.



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ASTM F 963-16 (Clause 4.3.5) & EN71 Part 3: 1994 (including amendment A1:2000/ AC:2002)-Migration of Certain Elements.

With reference to ASTM F 963-16(Clause 8.3)& EN71 Part 3: 1994, analysis was performed by Test Method: ICP-OES.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND

Notes:

(1)Results shown are of the adjusted analytical results

CPSIA section 108 - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.3, analysis was performed by GC-MS

Concentration of phthalates in components of toy product

Test Item(s)	CAS_NO	Permissible Unit	MDL	<u>017</u>
Dibutyl Phthalate (DBP)	84-74-2	<u>Limit</u> 0.1 %(w/w	y) 0.005	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1 %(w/w	0.005	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1 %(w/w	0.005	ND
Comment				PASS

Concentration of phthalates in components of toy that can be placed in the mouth or childcare article



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Test Item(s)	<u>CAS NO</u> <u>Permi</u> Lir		<u>MDL</u>	<u>017</u>	
Diisononyl Phthalate (DINP)).1 %(w/w)	0.005	ND	
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1 %(w/w)	0.005	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0 / (68515-49-1	0.1 %(w/w)	0.005	ND	
Comment				PASS	

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND

Notes:

- (1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
- ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

- (2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information

(3) DBP+BBP+DEHP < 1000mg/kg, DINP+DNOP+DIDP < 1000mg/kg. The limit was submitted by



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applicant.

PFOS (Perfluorooctane sulfonates)

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

<u>Test Item(s)</u>

CAS NO. <u>Limit</u> <u>Unit</u> <u>MDL</u> <u>017</u>

Perfluorooctane Sulfonates (PFOS)^ - 1000 mg/kg 10 ND

Notes:

(1) ^ PFOS refer to Perfluoroctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

(2) The limit was submitted by applicant.



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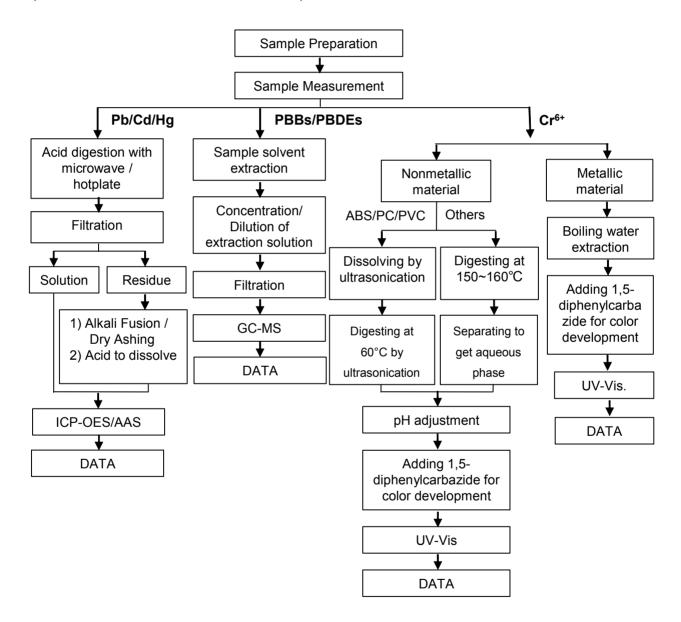
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ATTACHMENTS

Pb/Cd/Hg/Cr6+/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. (Cr6+ and PBBs/PBDEs test method excluded).





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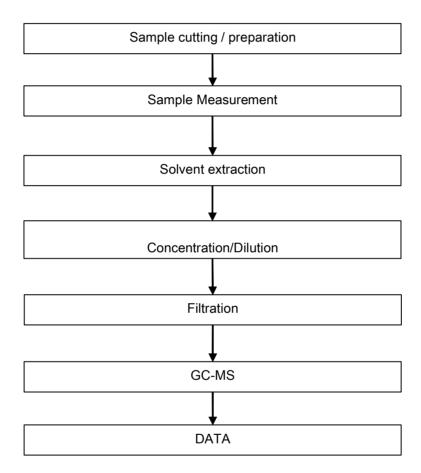
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Phthalates Testing Flow Chart

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





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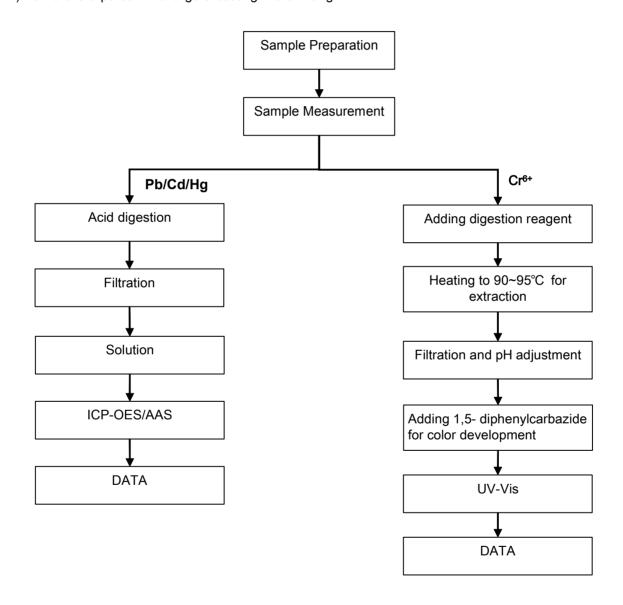
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

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





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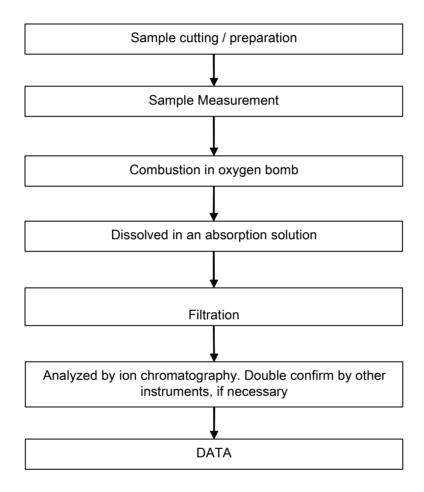
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Halogen Testing Flow Chart

- 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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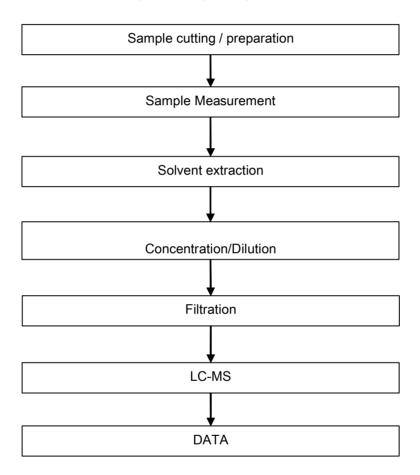
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PFOA / PFOS Testing Flow Chart

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





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Sample photo:



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