



# TEST REPORT

REPORT No.: R2DG1702162061E

Date: March 7, 2017

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**DONGGUAN LIYANG TOYS LTD.  
FLOOR 3, BUILDING 2, DAXINGWEI INDUSTRY, XIANXI, WUSHA, CHANG'AN TOWN, DONGGUAN CITY,  
GUANGDONG PROVINCE.**

Report on the submitted samples said to be:


Sample Description : Ding Dong  
Style/Item No. : BL -53712  
Color : Naturally Yours Clear  
Brand : Blush  
Sample Receiving Date : February 16, 2017  
Testing Period : From February 16, 2017 to March 7, 2017  
Results : Please refer to next page(s).

Signed for and on behalf of

BACL

Checked by: 

Jane Xu  
Technical Supervisor

Approved by: 

William Wei  
Laboratory Manager

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Bay Area Compliance Laboratories Corp. (Dongguan)

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## Summary of Test Results:

<u>TEST REQUEST</u>	<u>CONCLUSION</u>
A US California Proposition 65. on Phthalates (DBP、BBP、DEHP、DnHP、DINP and DIDP) content	Pass*
B Phthalates (DBP、BBP、DEHP、DNOP、DINP and DIDP) content	Pass*
C Commission Regulation (EU) 2015/2030 and (EU) No 519/2012 amending Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants - Alkanes, C10-13, Chloro (short chain chlorinated paraffins) content	Pass
D Entry 23 of Regulation (EC) No 552/2009 and 494/2011 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Cadmium (Cd )content(formerly known as 91/338/EEC)	Pass
E Canada Surface Coating Materials Regulations (SOR/2016-193) – Mercury content	Pass
F Canada Products Containing Mercury Regulations (SOR/2014-254)	Pass
G Entry 50 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment directives on PAHs content	Pass
H Entry 20 of Regulation (EC) No 552/2009 and 276/2010 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Organostannic compounds content (formerly known as 2002/62/EC and 2009/425/EC)	Pass

Pass\*= Meet the Requirement of Client

\*\*\*\*\*

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**Results:**

Tested part(s):

- |  |  |
|--|--|
| (1) Clear soft plastic(body)                           | (9) Silvery metal(spring, PCB)                           |
| (2) Black plastic without coating(battery compartment) | (10) Golden metal with silvery solder(wire)              |
| (3) Black plastic(button)                              | (11) Golden metal with silvery solder(small round plate) |
| (4) Silvery coating(battery compartment semi-product)  | (12) Silvery metal(case, motor)                          |
| (5) Green PCB(inside battery compartment)              | (13) Silvery metal(shaft, motor)                         |
| (6) Translucent plastic(gasket, button)                | (14) Coppery metal(coil, motor)                          |
| (7) Black plastic(button/case, PCB)                    | (15) Black soft plastic(gasket)                          |
| (8) Silvery metal(square plate, button, PCB)           | (16) Golden metal(shaft fixer ,motor)                    |
|  | (17) Silvery metal(brush ,motor)                         |

**A. US California Proposition 65. on Phthalates (DBP, BBP, DEHP, DnHP, DINP and DIDP) content**

Test method: With reference to CPSC-CH-C1001-09.3, by solvent extraction and Analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Client's Limit
			(1)+(2)+(3)	(4)	(15)	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	0.010	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Di-n-hexyl Phthalate (DnHP)	%	0.003	N.D.	N.D.	N.D.	0.1
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	N.D.	0.1
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- Sample (4) was tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo appendix is included.

**B. Phthalates (DBP, BBP, DEHP, DNOP, DINP and DIDP) content**

Test method: With reference to CPSC-CH-C1001-09.3, by solvent extraction and Analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Client's Limit
			(1)+(2)+(3)	(4)	(15)	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	0.010	N.D.	---
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	---
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	---
DBP + BBP + DEHP	%	/	N.D.	0.010	N.D.	0.1
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	N.D.	N.D.	---
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	N.D.	---
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	N.D.	---
DNOP + DINP + DIDP	%	/	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- The results less than MDL are not taken into account while calculating the sum contents.
- Sample (4) was tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

**C. Commission Regulation (EU) 2015/2030 and (EU) No 519/2012 amending Regulation (EC) No 850/2004 of the European Parliament and of the Council on Persistent Organic Pollutants - Alkanes, C10-13, Chloro (short chain chlorinated paraffins) content**

Test method: With reference to US EPA 3540C:1996/ US EPA 3550C:2007 & US EPA 8270D:2007, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Articles

Item	Unit	MDL	Results			Limit
			(1)+(2)+(3)	(4)	(15)	
Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins)	%	0.01	N.D.	N.D.	N.D.	0.15
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

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Note:

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- MDL = Method Detection Limit
- % = Percentage by weight
- mg/kg = ppm 0.1%=1000 mg/kg
- Samples (4),(15) were tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

**D. Entry 23 of Regulation (EC) No 552/2009 and 494/2011 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Cadmium (Cd )content(formerly known as 91/338/EEC)**

Test method: With reference to EN1122:2001 and US EPA 3052:1996/ EPA 3050B:1996 & US EPA 6010C:2007, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results			Limit
			(1)+(2)+(3)	(4)	(5)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Item	Unit	MDL	Results			Limit
			(6)	(7)	(8)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

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Item	Unit	MDL	Results			Limit
			(9)	(10)	(11)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Item	Unit	MDL	Results			Limit
			(12)	(13)	(14)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Item	Unit	MDL	Results			Limit
			(15)	(16)	(17)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Sample (4) was tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
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## E. Canada Surface Coating Materials Regulations (SOR/2016-193) – Mercury content

Total Mercury Content-With reference to Product Safety Bureau Reference Manual Book 5-Laboratory Policies and Procedures Part B: Test method Section, Method C-07

Items	Unit	MDL	Results			Limit
			(4)			
Mercury (Hg)	%	0.001	N.D.			0.001
<b>Conclusion</b>	/	/	<b>Pass</b>			/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- Sample (4) was tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- Photo is included.

## F. Canada Products Containing Mercury Regulations (SOR/2014-254)

Test method: With reference to IEC62321-4:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

Items	Unit	MDL	Results			Limit
			(1)+(2)+(3)	(5)	(6)	
Mercury (Hg)	%	0.001	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Items	Unit	MDL	Results			Limit
			(7)	(8)	(9)	
Mercury (Hg)	%	0.001	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Items	Unit	MDL	Results				Limit
			(10)	(11)	(12)	(13)	
Mercury (Hg)	%	0.001	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Items	Unit	MDL	Results				Limit
			(14)	(15)	(16)	(17)	
Mercury (Hg)	%	0.001	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

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- MDL = Method Detection Limit
- % = Percentage by weight
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**G. Entry 50 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment directives on PAHs content**

Test method: With reference to AfPS GS 2014:01 PAK, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	CAS No.	Unit	MDL	Results				Limit
				(1)	(2)	(3)	(15)	
Benzo(a)pyrene (BaP)	50-32-8	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Benzo(e)pyren (BeP)	192-97-2	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Benzo(a)anthracene (BaA)	56-55-3	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)	218-01-9	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Benzo(b)fluoranthene (BbFA)	205-99-2	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Benzo(j)fluoranthene (BjFA)	205-82-3	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Benzo(k)fluoranthene (BkFA)	207-08-9	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
Dibenzo(a,h)anthracene (DBA)	53-70-3	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	1
<b>Conclusion</b>	/	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D. = Not Detected or less than MDL.
- MDL = Method Detection Limit.
- mg/kg = ppm.
- --- = Not Regulated.
- Sample (15) was tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- Photo is included.

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**H. Entry 20 of Regulation (EC) No 552/2009 and 276/2010 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Organostannic compounds (formerly known as 2002/62/EC and 2009/425/EC)**

Test method: With reference to ISO 17353:2004, by solvent extraction and analysis was performed by Gas Chromatographic- Mass Spectrometer (GC-MS)

Item	Unit	MDL	Results			Limit(by weight of tin)
			(1)+(2)+(3)	(4)	(15)	
Dibutyltin (DBT)	%	0.001	N.D.	N.D.	N.D.	0.1
Tri-substituted Organostannic compounds(TBT, TPhT)	%	0.001	N.D.	N.D.	N.D.	0.1
Diocetyl tin(DOT)	%	0.001	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>/</b>

Remark:

- (1) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.
- (2) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:
  - (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and
  - (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;
  - (c) any totally or partly submerged appliance or equipment.
- (3) Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.
- (4) Tri-substituted organostannic compounds  
 Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin. Articles not complying with paragraph 4(a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.

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(5) Dibutyltin (DBT) compounds

- (a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.
- (b) Articles and mixtures not complying with paragraph 5(a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.
- (c) By way of derogation, paragraphs 5(a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:
  - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives,
  - paints and coatings containing DBT compounds as catalysts when applied on articles,
  - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC,
  - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications,
  - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades. By way of derogation, paragraphs 5(a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food.

6. Dioctyltin (DOT) compounds

- (a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin:
  - textile articles intended to come into contact with the skin
  - gloves,
  - footwear or part of footwear intended to come into contact with the skin,
  - wall and floor coverings,
  - childcare articles,
  - female hygiene products,
  - nappies,
  - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits),
- (b) Articles not complying with paragraph 6(a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.

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# TEST REPORT

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- The results less than MDL are not taken into account while calculating the sum contents.
- "--"=Not Regulated
- Samples (3),(4),(15) were tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

\*\*\*\*\*

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Photograph of Sample



BACL authenticate the photo on original report only

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

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