



# TEST REPORT

REPORT No.: RSZ1303140601E

Date: March 22, 2013

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Hui Yang Kang De Rubber Ware Co., Ltd  
惠阳康德橡胶制品有限公司  
Kang Li Road, Liang Jing Town, Huiyang District, Huizhou City, Guangdong Province  
广东省惠州市惠阳区良井镇康丽大道 1 号

Report on the submitted samples said to be:

Sample Name : Silicone keypad  
Manufacturer : Hui Yang Kang De Rubber Ware Co., Ltd  
Sample Receiving Date : March 14, 2013  
Testing Period : From March 14, 2013 to March 22, 2013  
Results : Please refer to next page(s).

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**Summary of Test Results:**

**TEST REQUEST**


**CONCLUSION**

A Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Phthalates (DBP, BBP, DEHP, DNOP, DINP and DIDP) content(formerly known as 2005/84/EC) **Pass**  
To determine Phthalates DNHP, DMP, DEP, DPrP, DIBP, DPP, DCHP, DIOP, DNP and DBzP) content as the requirement of Client **Pass\*1**

Pass\*1=Meet the Client's Limit

\*\*\*\*\*  
Signed for and on behalf of  
BACL

Checked by:   
Amy Li  
Technical Supervisor

Approved by:   
Christy Wang  
Laboratory Vice Manager

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**Results:**

Tested part(s):

(1) Black/red/green/yellow/blue plastic with grey printing

**A. Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on Phthalates (DBP, BBP, DEHP, DNOP, DINP and DIDP) content(formerly known as 2005/84/EC)**

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)

Item	Unit	MDL	Results	Limit
			(1)	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	See Remark
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	
DBP + BBP + DEHP	%	/	N.D.	
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	
Diisononyl Phthalate (DINP)	%	0.01	N.D.	
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	
DNOP + DINP + DIDP	%	/	N.D.	
<b>Conclusion</b>	<b>/</b>	<b>/</b>	<b>Pass</b>	

Remark:

- i Phthalates of DEHP, DBP and BBP shall not be used as substances or as constituents of preparations, at concentrations greater than 0.1% by mass of the plasticized material in toys and child care articles.
- ii Phthalates of DINP, DIDP and DNOP shall not be used as substances or as constituents of preparations, at concentrations greater than 0.1% by mass of the plasticized material in toys and child care articles which can be placed in the mouth by children.

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**To determine Phthalates DNHP, DMP, DEP, DPrP, DIBP, DPP, DCHP, DIOP, DNP and DBzP content as the requirement of Client**

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)

Item	CAS No.	Unit	MDL	Results	Client's Limit
				(1)	
Di-(Nonyl) Phthalate(DNHP)	84-75-3	%	0.003	N.D.	0.1%
Dimethyl Phthalate(DMP)	131-11-3	%	0.003	N.D.	0.1%
Diethyl Phthalate(DEP)	84-66-2	%	0.003	N.D.	0.1%
Dipropyl Phthalate(DPrP)	131-16-8	%	0.003	N.D.	0.1%
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	N.D.	0.1%
Dipentyl Phthalate(DPP)	131-18-0	%	0.003	N.D.	0.1%
Dicycphexyl Phthalate(DCHP)	84-61-7	%	0.003	N.D.	0.1%
Diisooctyl Phthalate(DIOP)	27554-26-3	%	0.003	N.D.	0.1%
Dinonly phthalate(DNP)	84-76-4	%	0.003	N.D.	0.1%
Dibenzyl Phthalate(DBzP)	523-31-9	%	0.003	N.D.	0.1%
<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
- Flow chart appendix is included.
- Photo appendix is included.

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Bay Area Compliance Laboratories Corp. (Shenzhen)

6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China  
Tel: +86-755-33320018 Fax: +86-755-33320008

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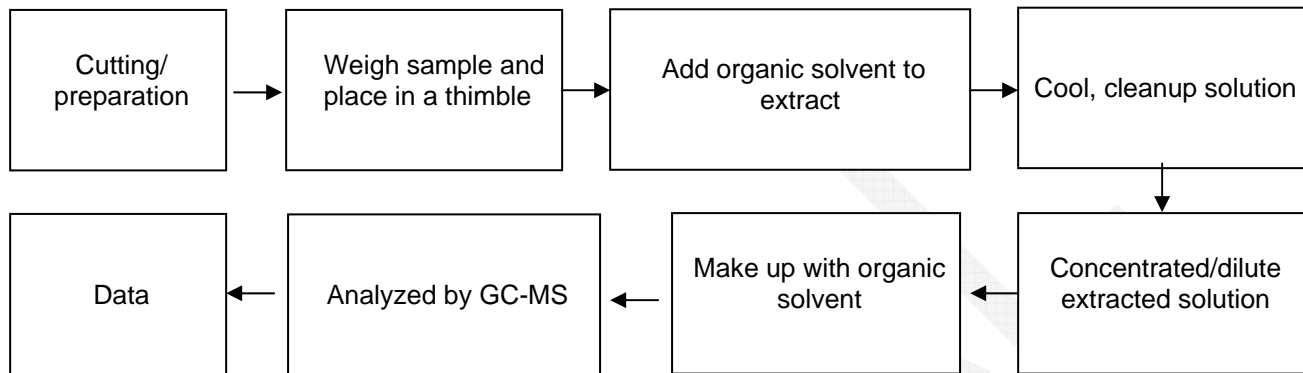
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## Appendix

Test flow chart for Phthalates content:



Test by: Larry.Liu  
Check by: Arthur. Xiong

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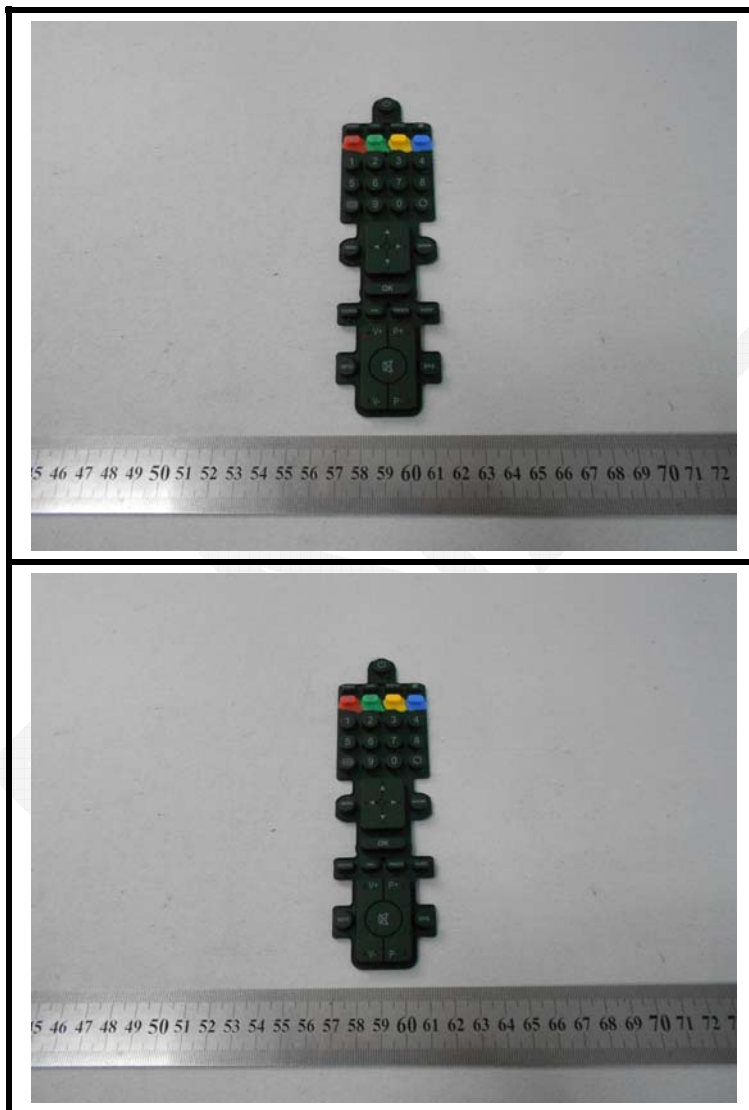
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Photograph of Sample



BACL authenticate the photo on original report only

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

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