



Test Report

Report No:BST17111005590001Y-1RR-4

Date: Nov.07, 2017

Page 1 of 9

Applicant : KW OPEN PROMOTION CONSULTING & TRADING GMBH

Address : Die Spinnerei 18, 6845 Hohenems, Austria

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

Sample Name : LED Timer Coaster

Sample Model : GF2016A045

Sample Received Date : Nov.03, 2017

Testing Period : Nov.03, 2017 To Nov.07, 2017

Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS Directive 2011/65/EU Annex II (EU) 2015/863 .

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

Test Result : Please refer to next page(s).

Signed for and on behalf of

Andy Zheng/ Technical Director

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Dongguan BST Testing Co., Ltd.

A1201-1204 Xinsanqi Of Dongbao Road, Dongcheng District, Dongguan, Guangdong, China E-mail: christina@bst-lab.com Tel: 400-882-9628 Fax: 86-769-23020106 Http://www.bst-lab.com Complaints hotline: 86-755-26747756



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Page 2 of 9

Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Page 3 of 9

Sample Description:

No.	Description	Name
1	Metal	Screw
2	Plastic	Transparent Shell
3	Metal	Battery
4	PCB	PCB
5	Metal	Sheet Metal
6	Plastic	LED Light
7	Plastic	Switch
8	Resistance	Resistance
9	Capacitance	Capacitance
10	IC	IC
11	Triode	Triode
12	Plastic	LED Light
13	Metal	Horn
14	Plastic	Red Line Skin
15	Plastic	Black Line Skin
16	Metal	Wire Core
17	Metal	PCB Solder

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Date: Nov.07, 2017

Page 4 of 9

Test Results:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	--	N.D.	--
PBDEs	--	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	--	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	--	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	--	N.D.	--	N.D.	--
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.

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Page 5 of 9

Test Item(s)	No.11	No.12	No.13	No.14
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.
PBDEs	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.
Test Item(s)	No.15	No.16	No.17	
Cadmium (Cd)	N.D.	N.D.	N.D.	
Lead (Pb)	N.D.	N.D.	10	
Mercury (Hg)	N.D.	N.D.	N.D.	
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	
PBBs	N.D.	--	--	
PBDEs	N.D.	--	--	
Dibutyl Phthalate (DBP)	N.D.	--	--	
Butyl benzyl phthalate (BBP)	N.D.	--	--	
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	--	
Diisobutyl phthalate (DIBP)	N.D.	--	--	

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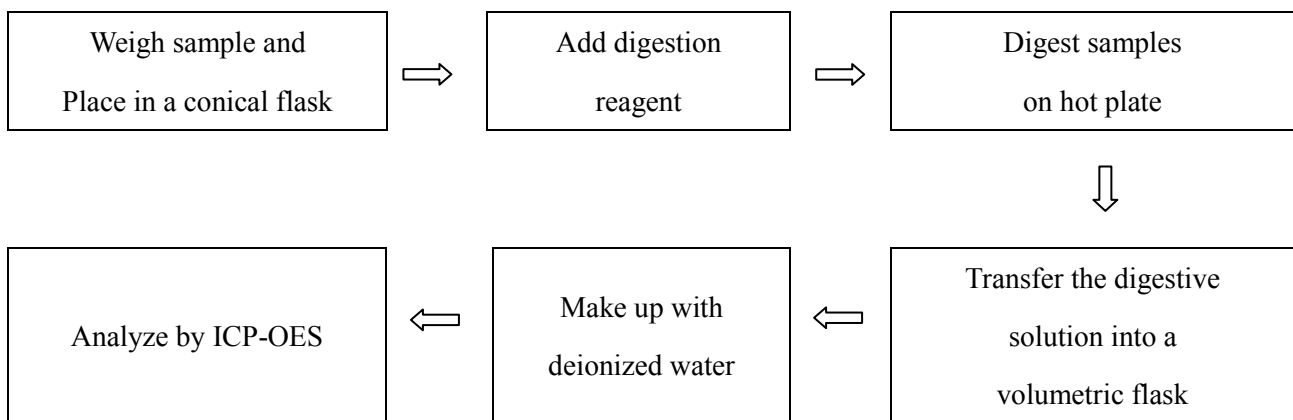
Date: Nov.07, 2017

Page 6 of 9

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Test Process:

1. Test for Cd/Pb Content



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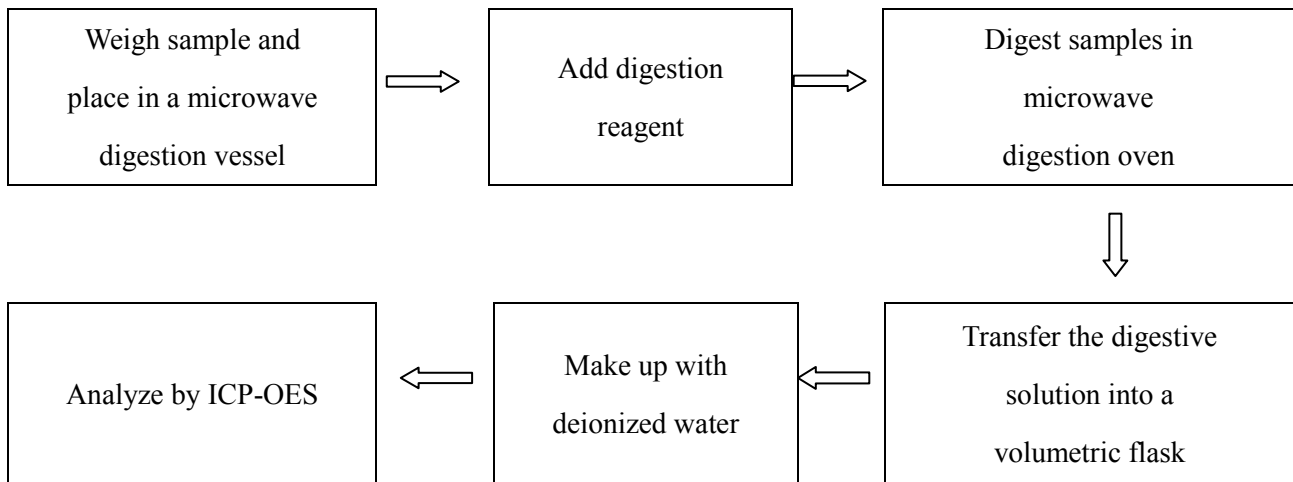
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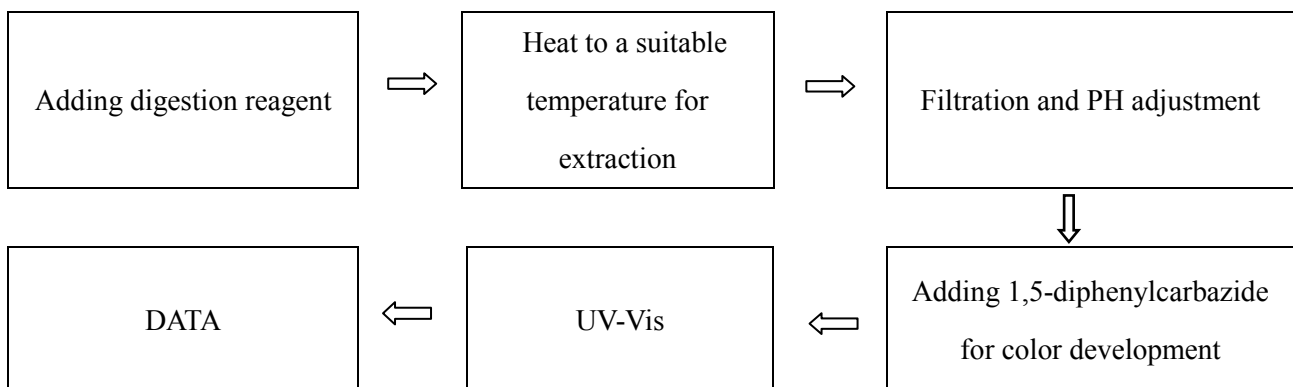
Page 7 of 9

2. Test for Hg Content

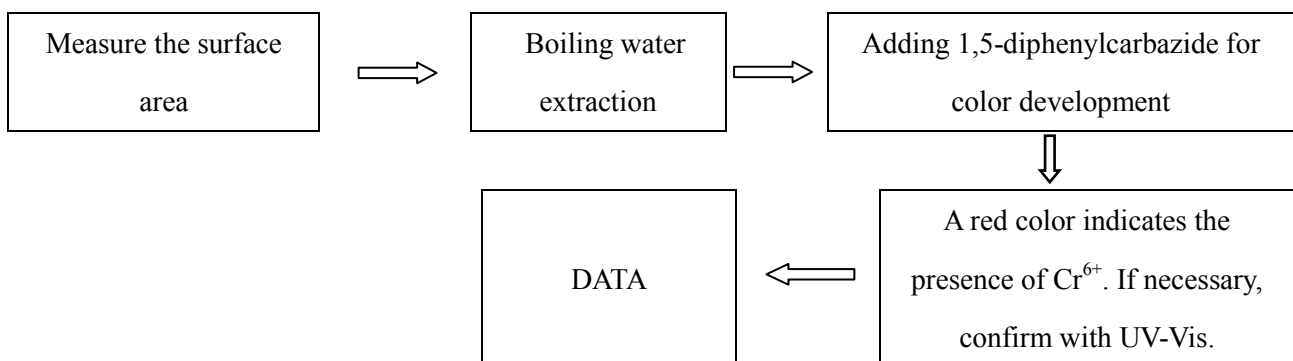


3. Test for Chromium (VI) Content

Nonmetal material



Metal material



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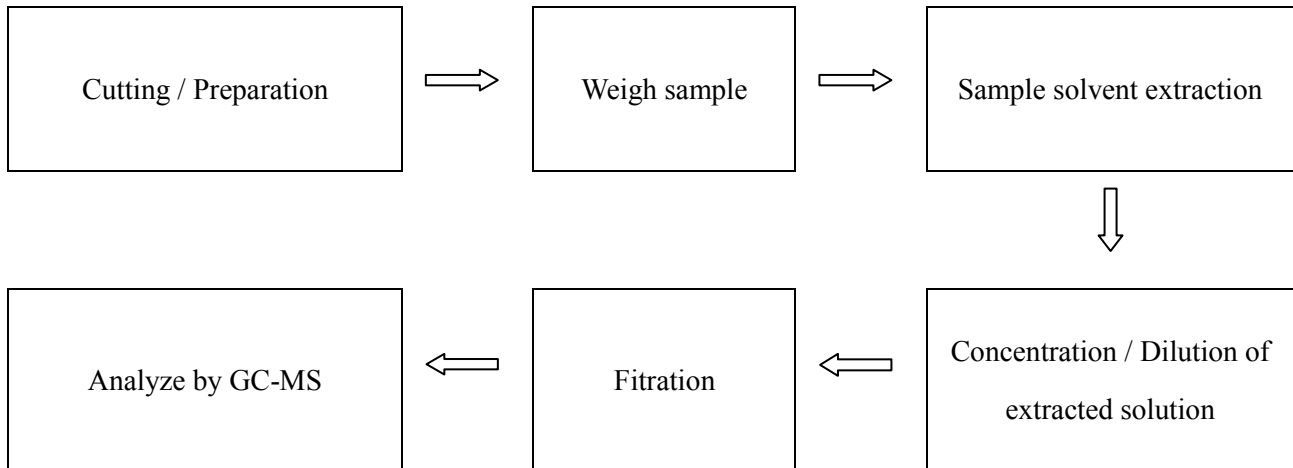
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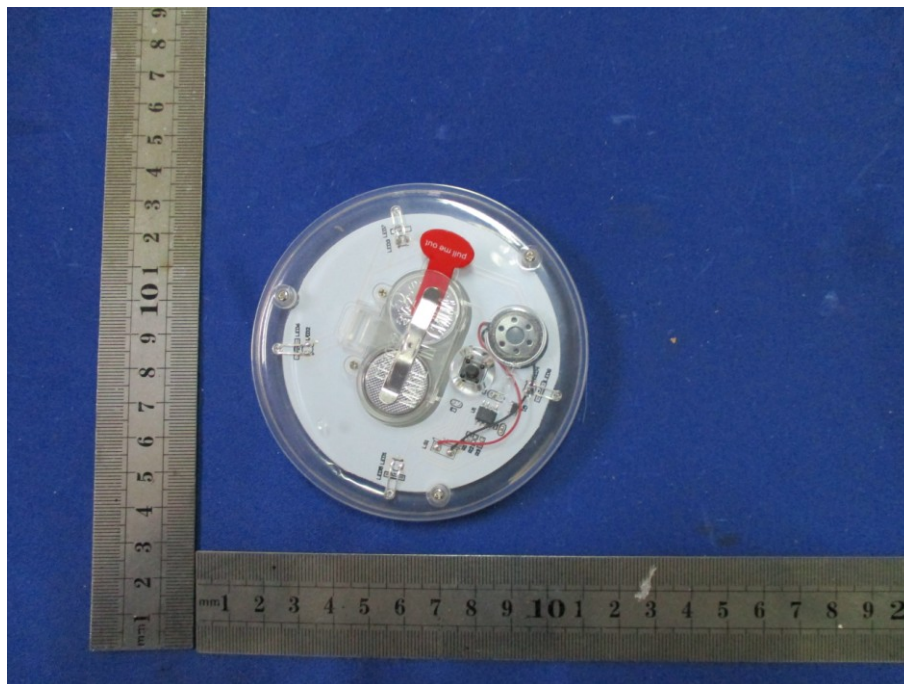
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Page 8 of 9

4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



Sample Photo:



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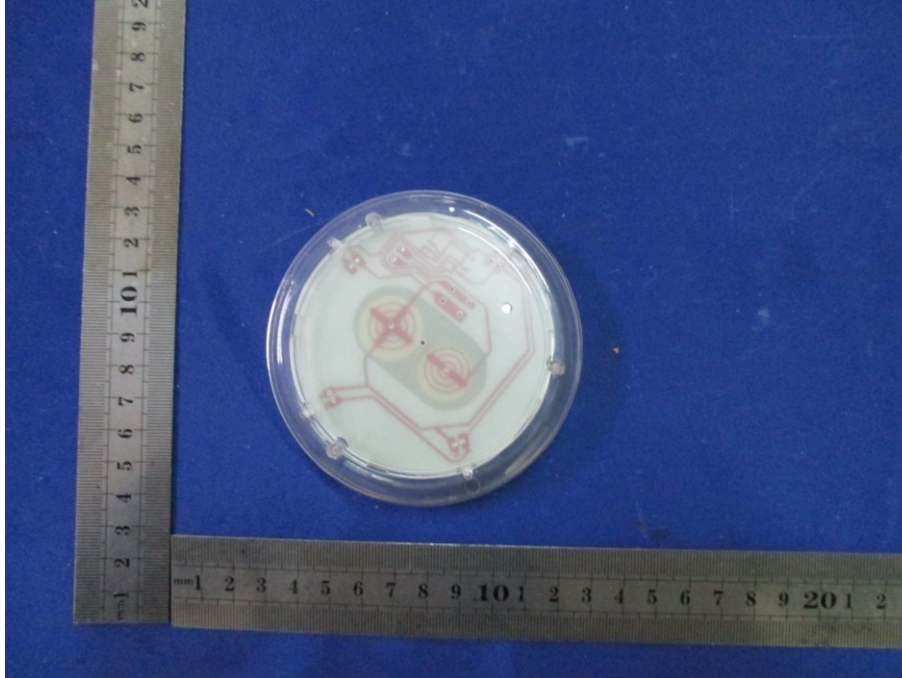


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Report No:BST17111005590001Y-1RR-4

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Page 9 of 9



*** End of Report ***

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