



Test Report

Report No.: TR20161357

Applicant

Address

Report Date

2016-03-29

Hangzhou C&K Testing Technic Co., Ltd.





Test Report

Applicant	
Address	
Sample Name	Flashlight w. waste bags DOGS HELPER.
Type/ Model	HL6060
Sample Received Date	2016-03-22
Sample Further Submission Date	2016-03-25
Test Period	2016-03-22 ~ 2016-03-29
Test Requirement	To determine the certain Hazardous Substances of the submitted sample according to the requirements of RoHS Directive 2011/65/EU (the European Parliament and the Council's Restriction on the use of certain Hazardous Substances in electrical and electronic equipment).

Test Item(s)	Test Result(s)
RoHS Directive 2011/65/EU	Pass

Complied by Yoko Ye Inspected by Kale Zhang Authorized by Mark Li
Mark Li/ Lab Manager



Test Component(s):

No.	Sample Serial No.	Test Component(s)
1	TR20161357001	1
2	TR20161357002	2
3	TR20161357003	3
4	TR20161357004	4
5	TR20161357005	5
6	TR20161357006	6
7	TR20161357007	7
8	TR20161357008	8
9	TR20161357009	9
10	TR20161357010	10
11	TR20161357011	11
12	TR20161357012	12
13	TR20161357013	13
14	TR20161357014	14
15	TR20161357015	15
16	TR20161357016	16
17	TR20161357017	17
18	TR20161357018	18
19	TR20161357019	19
20	TR20161357020	20

Photo(s):



1



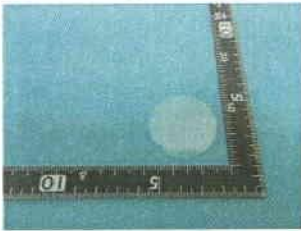
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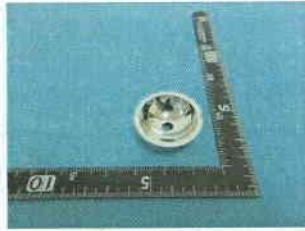
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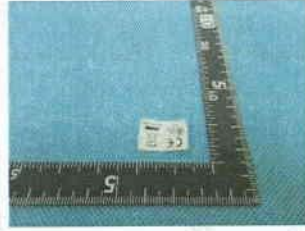
4



5



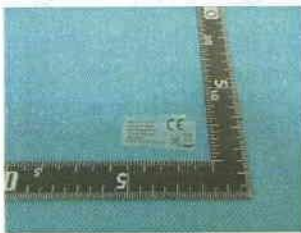
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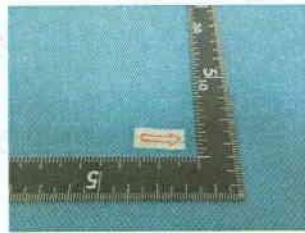
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9



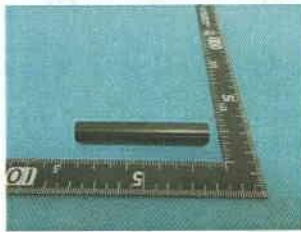
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11



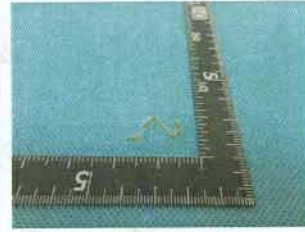
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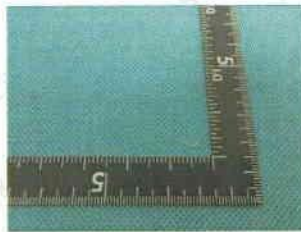
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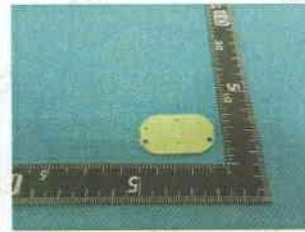
15



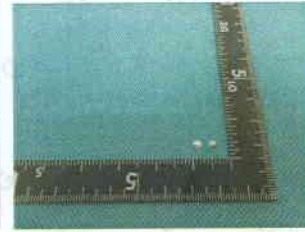
16



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18



19



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Reference photo(s):





1) According to Client's Requirement, Screening Test by XRF Spectroscopy

Test Method: X-ray fluorescence spectrometry (XRF) scanning

Test Item(s)	MDL	Unit	Test Result(s)								
			1	2	3	4	5	6	7	8	9
Lead (Pb)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Bromine (Br)	100	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.

Test Item(s)	MDL	Unit	Test Result(s)								
			10	11	12	13	14	15	16	17	18
Lead (Pb)	5	mg/kg	N.D.	N.D.	N.D.	110	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)	5	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Bromine (Br)	100	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.A.	N.C.	N.A.	N.D.

Test Item(s)	MDL	Unit	Test Result(s)	
			19	20
Lead (Pb)	5	mg/kg	N.C.	N.D.
Cadmium (Cd)	5	mg/kg	N.D.	N.D.
Mercury (Hg)	5	mg/kg	N.D.	N.D.
Chromium (Cr)	5	mg/kg	N.C.	N.C.
Bromine (Br)	100	mg/kg	N.A.	N.A.

Remarks:

1. MDL = Method Detection Limit
2. N.D. = Not detected (<MDL)
3. N.C. = Not Conclusive
4. N.A. = Not Applicable



2) Confirmation Test by Wet Chemistry

Test Method: IEC 62321-7-1:2015

Test Item(s)	Test Value ($\mu\text{g}/\text{cm}^2$)		Test Result(s)	
	19	20	19	20
Hexavalent Chromium(Cr^{6+})	<0.02	<0.02	Negative	Negative

Remarks:

1. Negative: $\text{Cr}^{6+} < 0.10 \mu\text{g}/\text{cm}^2$;

Positive: 1) $\text{Cr}^{6+} > 0.13 \mu\text{g}/\text{cm}^2$;

2) Sample solution is significantly more intense than the $0.13 \mu\text{g}/\text{cm}^2$ equivalent comparison standard, and the actual value in $\mu\text{g}/\text{cm}^2$ is not required.

Inconclusive: $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$

Test Method: Pb, Cd: IEC 62321-5:2013; Hg: IEC 62321-4:2013; Cr^{6+} : IEC 62321:2008

PBBs, PBDEs: IEC 62321-6: 2015

Test Item(s)	MDL	Limit	Unit	Test Result(s)	
				16	19
Cadmium (Cd)	5	100	mg/kg	--	--
Lead (Pb)	5	1000	mg/kg	--	693
Mercury (Hg)	5	1000	mg/kg	--	--
Hexavalent Chromium (Cr^{6+})	5	1000	mg/kg	--	--
Polybrominated Biphenyls (PBBs)	100	1000	mg/kg	N.D.	--
Polybrominated Diphenylethers (PBDEs)	100	1000	mg/kg	N.D.	--

Remark:

1. MDL = Method Detection Limit; N.D. = Not detected (<MDL)

The end of report