



中国认可
国际互认
检测
TESTING
CNAS L5186

Test Report

Report No.: CTT180830182EN

Date: Aug. 22, 2018

Page 1 of 10

Applicant:

Address:

The following merchandise was (were) submitted and identified by client as:

Sample Name: 5m/19mm,2-in-1 measuring tape with LED 3x light

Model No.: P113.271

Sample Received Date: Aug. 20, 2018

Completed Date: Aug. 22, 2018

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

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	RoHS Directive 2011/65/EU and its subsequent amendments	PASS

Signed for and on Behalf of CTT

Frank



Frank / Lab supervisor

Consumer Testing Technology Co., Ltd.

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Consumer Testing Technology Co., Ltd.

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Test Result(s):

RoHS - Lead (Pb)/Cadmium(Cd)/Mercury(Hg)/Hexavalent Chromium(Cr⁶⁺)/PBBs/PBDEs

Method:

With reference to IEC 62321-3-1:2013, screening by EDXRF Spectroscopy.

Lead (Pb)/Cadmium(Cd) - With reference to IEC 62321-5: 2013, analyzed by AAS & ICP-OES.

Mercury(Hg) - IEC 62321-4: 2013/AMD1: 2017, analyzed by AAS & ICP-OES.

Hexavalent Chromium(Cr⁶⁺) – Polymers: With reference to IEC 62321-7-2: 2017, analyzed by UV-Vis.

Hexavalent Chromium(Cr⁶⁺) – Colourless and coloured corrosion-protected coatings on metals

With reference to IEC 62321-7-1:2015

PBBs/PBDEs - With reference to IEC 62321-6: 2015, analyzed by GC-MS.

Material No.	Substances	ⁿ EDXRF Result *	Chemical Result #(mg/kg)	Conclusion
1	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
2	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
3	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
4	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
5	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS

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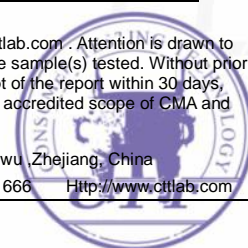
	PBBs	BL	--	PASS
	PBDEs		--	PASS
6	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
7	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
8	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
9	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
10	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
11	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
12	Pb	BL	--	PASS

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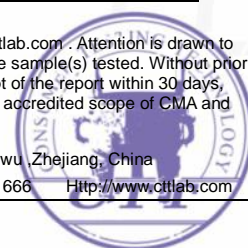
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
13	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
14	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
15	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
16	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
17	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
18	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS

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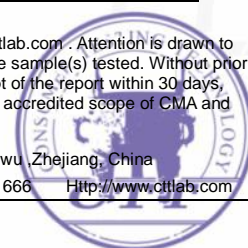
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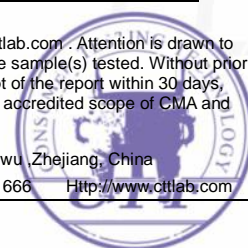
19	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
20	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
21	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
22	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
23	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
24	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS

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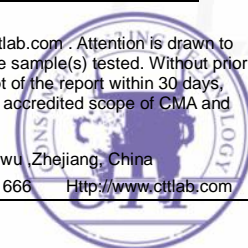
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
25	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
26	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
27	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
28	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
29	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
30	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS

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	PBBs	BL	--	PASS
	PBDEs		--	PASS
31	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
32	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
33	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	IN	Negative	PASS
34	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
35	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS
	PBDEs		--	PASS
36	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
37	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	BL	--	PASS
	PBBs	BL	--	PASS

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	PBDEs		--	PASS
38	Pb	BL	--	PASS
	Cd	BL	--	PASS
	Hg	BL	--	PASS
	Cr ⁶⁺	IN	Negative	PASS

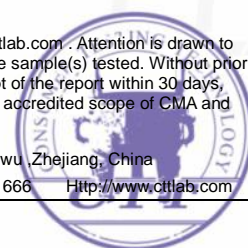
- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL(Reporting Limit): 2 mg/kg for Pb/ Cd/ Hg/ Cr⁶⁺(Nonmetal material); 5 mg/kg for PBBs & PBDEs.
 4. Negative = Absence of Cr⁶⁺.
 5. Positive = Presence of Cr⁶⁺: the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 6. “*” = It is the result on total Cr and Br while test substances are Cr⁶⁺ and PBBs & PBDEs.
 7. “#” = Result are obtained by EDXRF for primary screening, if the result exceeds the below limit (BL), and further chemical testing.

Screening limits in mg/kg for regulated elements in various matrices

Elements	Polymer	Metal	Composite Materials
Pb	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cd	BL≤(70-3σ)<X<(130+3σ)≤ OL	BL≤(70-3σ)<X<(130+3σ)≤ OL	LOD<X<(150+3σ)≤OL
Hg	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(700-3σ)<X<(1300+3σ)≤ OL	BL≤(500-3σ)<X<(1500+3σ)≤ OL
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X
Br	BL≤(300-3σ)<X	--	BL≤(250-3σ)<X

BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection

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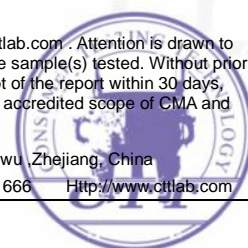


Test Material List

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Gray plastic	Shell
2	Black plastic	Outside of shell
3	Silvery plating metal	Screw
4	Copper metal	Inside of electric wire
5	Green plastic	Outside of electric wire
6	Silvery plating metal	Small battery pole piece
7	Silvery plating metal	Large battery pole piece
8	White plastic	Outside of electric wire
9	Green plastic	Circuit board
10	Black plastic	Box
11	Silvery plating metal	Inside of box
12	Light gray plastic	T-shaped accessory
13	White plastic	Press-button
14	Golden plating metal	Strip-type accessory
15	Silvery metal	Wire
16	Green solid with black/deep red paint	Resistance
17	Silvery plating metal	Large hook
18	Silvery metal	Spring
19	Black plastic	Press-button
20	Black plastic	Brake switch
21	Black plastic	Cell box cap
22	Black plastic	Light shell
23	Transparent plastic	Oval slice
24	Beige white plastic	Substrate of base of light
25	Silvery plating	Coating of base of light
26	Transparent plastic	Light
27	Golden metal	Wire
28	Black plastic	Outside of electric wire
29	Gray green plastic	Braking slice
30	Black plastic	Base of braking slice

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31	Silvery plating metal	Small hook
32	Silvery plating metal	Buckle cap body
33	Silvery plating metal	Base of buckle cap
34	Silvery metal	Substrate of tapeline
35	Multicolour paint	Coating of tapeline
36	Blue plating metal	Rewind
37	Beige white plastic	Hub
38	Silvery plating metal	Round ring

Photo of Sample:



End of Report

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