



TEST REPORT

REPORT No.: CTB191226003CX

Date: December 26, 2020

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Applicant: ZODIC Technology Limited

Address: L district,8 floor,Baisha Industrial park,shahexi Road,Nanshan district ,Shenzhen

Manufacturer's Name: ZODIC Technology Limited

Address: L district,8 floor,Baisha Industrial park,shahexi Road,Nanshan district ,Shenzhen

Report on the submitted samples said to be:

Sample Name : ZY-M01
Trade Name : N/A
Model(s) : ZY-M01,ZY-M72,ZY-M92,ZY-M102,ZY-M109,ZY-M113,ZY-M131,ZY-M153,ZY-M161,
ZY-M162,ZY-M172,ZY-M192,ZY-M198,ZY-M216,ZY-M217,ZY-M212,ZY-M225,ZY-M232,
ZY-M503
Sample Receiving Date : December 19, 2020
Testing Period : December 19 ~ December 26, 2020
Test Method : Please refer to next page(s)
Test Result : Please refer to next page(s)

Summary of Test Results:

TEST REQUEST

EU RoHS Directive 2011/65 / EU Appendix II Amendment Directive (EU) 2015/863

CONCLUSION

Pass

Check By:

N/Co Tian

Approve By:



Date: December 26, 2020

Shenzhen CTB Testing Technology Co., Ltd

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Test Method:

A. Screening test by XRF spectroscopy:

With reference to IEC 62321-3-1:2013, scanning by XRF Spectroscopy - (Pb, Cd, Hg, Cr, Br)

B. Chemical Test:

Test Item(s)	Test Method
Lead (Pb)	IEC 62321-5:2013
Cadmium (Cd)	IEC 62321-5:2013
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015
	IEC 62321-7-2:2017
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015
Dibutyl phthalate (DBP)	IEC62321-8:2017
Butyl benzyl phthalate(BBP)	IEC62321-8:2017
Di-(2-ethylhexyl) phthalate (DEHP)	IEC62321-8:2017
Diisobutyl phthalate(DIBP)	IEC62321-8:2017



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Test result : 1. RoHS directive (2011/65/EU)

SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	Black plastic button	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
2	Black plastic roller keys	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
3	Silver plastic	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
4	Black plastic base	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
5	Black plastic adjusting key	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
6	Milk - white plastic	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P



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SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
7	Black stainless steel base	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
8	Silver metal (USB)	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
9	White plastic (USB)	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
10	Black plastic (wire skin)	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
11	LED	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
12	PCB	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P



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SAMPLE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
13	Resistance	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
14	Capacitance	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
15	Disk capacity	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
16	lens	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
17	Screw	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
18	Silver coating	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P



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Remark:

(1) It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF.

(2) Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$P \leq 70-3 \sigma < D < 130+3 \sigma \leq F$	$P \leq 70-3 \sigma < D < 130+3 \sigma \leq F$	$P \leq 50-3 \sigma < D < 150+3 \sigma \leq F$
Pb	$P \leq 700-3 \sigma < D < 1300+3 \sigma \leq F$	$P \leq 700-3 \sigma < D < 1300+3 \sigma \leq F$	$P \leq 500-3 \sigma < D < 1500+3 \sigma \leq F$
Hg	$P \leq 700-3 \sigma < D < 1300+3 \sigma \leq F$	$P \leq 700-3 \sigma < D < 1300+3 \sigma \leq F$	$P \leq 500-3 \sigma < D < 1500+3 \sigma \leq F$
Br	$P \leq 300-3 \sigma < D$	-----	$P \leq 250-3 \sigma < D$
Cr	$P \leq 700-3 \sigma < D$	$P \leq 700-3 \sigma < D$	$P \leq 500-3 \sigma < D$

P = PASS; F = FAIL; D = DETECTED;

(3) mg/kg = ppm; N.D. = NOT DETECTED ($< MDL$ = Pb, Cd, Hg: 10 mg/kg; Cr(VI): 2mg/kg; PBBs, PBDEs: 5mg/kg)

(4) According to IEC 62321:2013, result on Cr(VI) for metal sample is shown as Positive/Negative. Positive = Presence of Cr(VI) coating, Negative = Absence of Cr(VI) coating



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2. Phthalates (DBP, BBP, DEHP, DIBP) content

Item	Dibutyl Phthalate (DBP) (mg/kg)	Benzylbutyl Phthalate (BBP) (mg/kg)	Bis-(2-ethylhexyl)Phthalate (DEHP) (mg/kg)	Diisobutyl phthalate (DIBP) (mg/kg)
MDL	30	30	30	30
Limit	1000	1000	1000	1000
1	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.
3	N.D.	N.D.	N.D.	N.D.
4	N.D.	N.D.	N.D.	N.D.
5	N.D.	N.D.	N.D.	N.D.
6	N.D.	N.D.	N.D.	N.D.
9	N.D.	N.D.	N.D.	N.D.
10	N.D.	N.D.	N.D.	N.D.
11	N.D.	N.D.	N.D.	N.D.
12	N.D.	N.D.	N.D.	N.D.
13	N.D.	N.D.	N.D.	N.D.
14	N.D.	N.D.	N.D.	N.D.
15	N.D.	N.D.	N.D.	N.D.
16	N.D.	N.D.	N.D.	N.D.
18	N.D.	N.D.	N.D.	N.D.

Note: 1. mg/kg = milligram per kilogram=ppm

2. N.D. = Not Detected

3.MDL = Method Detection Limit



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Photo documentation



*** End of Report ***