

Verification Report No.: NGBEC22002854402_3

Date: May 30, 2023

Page 1 of 8

Client Name: KING TONY TOOLS CO. LTD.

Client Address: NO.11, 150 ALLEY, 516 LANE., 2 SEC. HSI NAN RD., 41467 WU-JIH DIST., TAICHUNG CITY, TAIWAN

Sample Name: Cap light

Tested Basic Model No.: 9TA56

Client Ref. Information: 9TA561

The above sample(s) and information were provided by the client.

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.NGBEC22002854402_2, DATE: Apr 11, 2023.

SGS Job No.: NP22-004568

Sample Receiving Date: Aug 17, 2022

Verification Period: Aug 17, 2022 to Apr 11, 2023

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

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

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

Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Damon Li

Damon Li

Approved Signatory

scan to see the report



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Photo of Submitted Sample



Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES,UV-Vis and GC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB22-0028544-0001.C001	9TA56-Black plastic lump
SN2	A2	NGB22-0028544-0001.C002	9TA56-Black plastic ring
SN3	A3	NGB22-0028544-0001.C003	9TA56-Transparent plastic shell
SN4	A4	NGB22-0028544-0001.C004	9TA56-Blue plastic shell
SN5	A5	NGB22-0028544-0001.C005	9TA56-Black rubber lump
SN6	A6	NGB22-0028544-0001.C006	9TA56-White plastic base
SN7	A7	NGB22-0028544-0001.C007	9TA56-Silvery coating
SN8	A8	NGB22-0028544-0001.C008	9TA56-Black metal screw
SN9	A9	NGB22-0028544-0001.C009	9TA56-Silvery metal soldering tin
SN10	A10	NGB22-0028544-0001.C010	9TA56-Green PCB body
SN11	A11	NGB22-0028544-0001.C011	9TA56-Blue plastic jacket
SN12	A12	NGB22-0028544-0001.C012	9TA56-Red plastic jacket
SN13	A13	NGB22-0028544-0001.C013	9TA56-Yellow led light
SN14	A14	NGB22-0028544-0001.C014	9TA56-Black IC body
SN15	A15	NGB22-0028544-0001.C015	9TA56-Black IC body
SN16	A16	NGB22-0028544-0001.C016	9TA56-Silvery metal soldering tin
SN17	A17	NGB22-0028544-0001.C017	9TA56-Blue PCB body
SN18	A18	NGB22-0028544-0001.C018	9TA56-Silvery metal bar
SN19	A19	NGB22-0028544-0001.C019	9TA56-Golden metal lump
SN20	A20	NGB22-0028544-0001.C020	9TA56-Black rubber button
SN21	A21	NGB22-0028544-0001.C021	9TA56-Red plastic shell
SN22	A22	NGB22-0028544-0001.C022	9TA56-Black rubber sheath
SN23	A23	NGB22-0028544-0001.C023	9TA56-Blue plastic shell
SN24	A24	NGB22-0028544-0001.C024	9TA56-Black rubber ring



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	ND
PBBs	BL	BL	BL	BL	BL	BL	BL	---
PBDEs	BL	BL	BL	BL	BL	BL	BL	---
DBP	BL	BL	BL	BL	BL	BL	ND	---
BBP	BL	BL	BL	BL	BL	BL	ND	---
DEHP	BL	BL	BL	BL	BL	BL	ND	---
DIBP	BL	BL	BL	BL	BL	BL	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	ND	BL	BL	ND	ND	ND	---
PBDEs	---	ND	BL	BL	ND	ND	ND	---
DBP	---	BL	ND	ND	BL	ND	ND	---
BBP	---	BL	ND	ND	BL	ND	ND	---
DEHP	---	BL	ND	220	BL	ND	ND	---
DIBP	---	BL	ND	ND	BL	ND	ND	---
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBBs	ND	---	---	BL	BL	BL	BL	BL
PBDEs	ND	---	---	BL	BL	BL	BL	BL
DBP	BL	---	---	ND	BL	BL	BL	BL
BBP	BL	---	---	ND	BL	BL	BL	BL
DEHP	BL	---	---	ND	BL	BL	BL	BL
DIBP	BL	---	---	ND	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X$ $< (130+3\sigma) \leq OL$	$LOD < X$ $< (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X$ $X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$ $< (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$ $< (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not Applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region)= Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs/PBDEs) are recommended to be performed.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl Phthalate (DBP)	84-74-2	$BL \leq 600 < X$
Benzylbutyl Phthalate (BBP)	85-68-7	$BL \leq 600 < X$
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	$BL \leq 600 < X$
Diisobutyl Phthalate (DIBP)	84-69-5	$BL \leq 600 < X$

(3) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg.



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MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-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.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs /DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series.

(6) According to the declaration from applicant, the materials of Model "9TA56" are the same as those in Model mentioned in Client Ref. Information and its results for support the results of Model mentioned in Client Ref. Information. The applicant will take the responsibility of all discrepancy and risk.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w \neq 0$) stated in ILAC-G8:09/2019.



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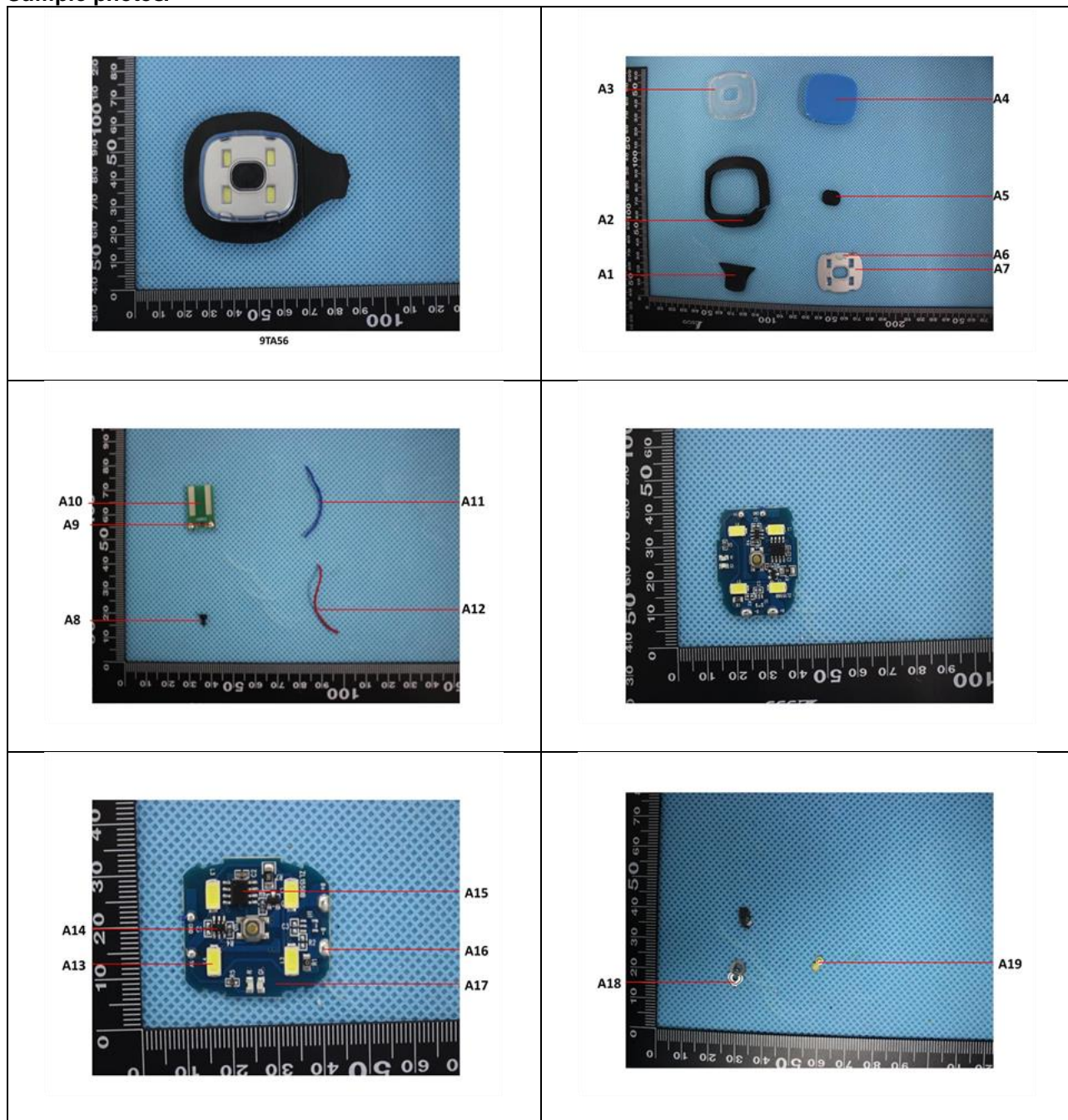
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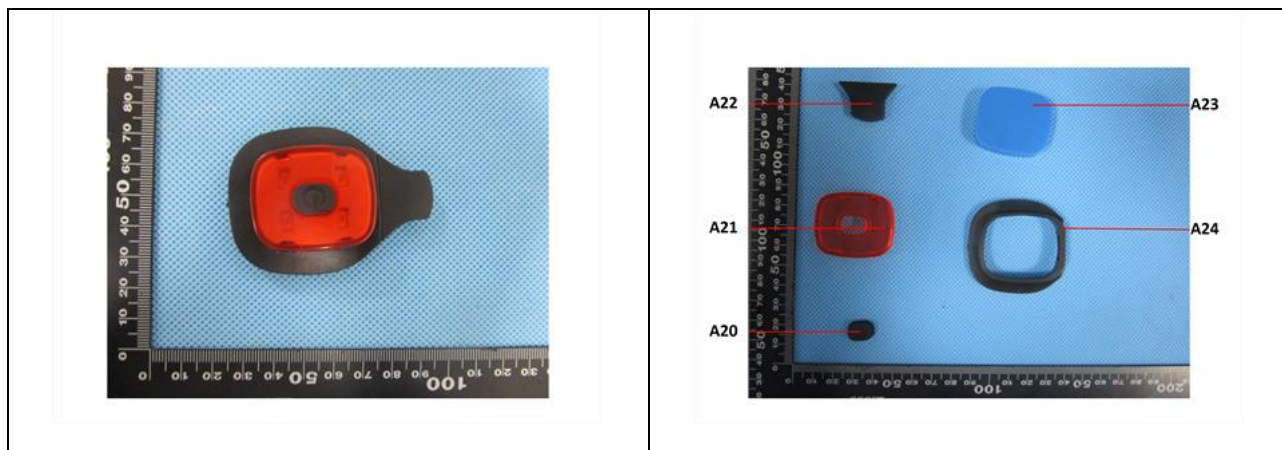
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Sample photos:





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