



Test Report

No.T52010241117TC

Date: MAY 08, 2020

Page 1 of 19

LEILONG TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

TOY SERIES

Item No. : A1001-1, A1001-2, A1001-3, A1001-4, A1002-1, A1002-2, A1002-3, A1002-4, A1003-1, A1003-2, A1003-3, A1003-4, A1004-1, A1004-2, A1004-3, A1004-4, A1005-1, A1005-2, A1005-3, A1005-4, A1006-1, A1006-2, A1006-3, A1006-4, A1007-1, A1007-2, A1007-3, A1007-4, A1008-1, A1008-2, A1008-3, A1008-4, A1009-1, A1009-2, A1009-3, A1009-4, A1010-1, A1010-2, A1010-3, A1010-4, A1101-1, A1101-2, A1101-3, A1101-4, A1102-1, A1102-2, A1102-3, A1102-4, A1103-1, A1103-2, A1103-3, A1103-4, A1104-1, A1104-2, A1104-3, A1104-4, A1105-1, A1105-2, A1105-3, A1105-4, A1106-1, A1106-2, A1106-3, A1106-4, A1107-1, A1107-2, A1107-3, A1107-4, A1108-1, A1108-2, A1108-3, A1108-4, A1109-1, A1109-2, A1109-3, A1109-4, A1110-1, A1110-2, A1110-3, A1110-4

Sample Receiving Date : APR 13, 2020

Last Submission Sample Date : APR 29, 2020

Testing Period : APR 13, 2020 TO MAY 08, 2020



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No. T52010241117TC

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Page 2 of 19

Test Requested	Conclusion
1. European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances	--
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content Screening by X-ray fluorescence spectrometry and analysis by wet chemical	PASS
Phthalate Content	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



Qu Ping, Kiky
Dept. Manager



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Results:
1.1 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - XRF

Method: With reference to IEC 62321-3-1:2013

Analysis was performed by X-ray Fluorescence Spectrometry (XRF)

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
1	Orange coating (Bread)	BL	BL	BL	BL	BL	PASS
2	White label paper w/ multi-color printing	BL	BL	BL	BL	BL	PASS
3	Transparent plastic adhesive tape	BL	BL	BL	BL	BL	PASS
4	Brown paper box w/ multi-color printing	BL	BL	BL	BL	BL	PASS
5	Beige plastic (Bread)	BL	BL	BL	BL	BL	PASS
6	Brown plastic (Dish)	BL	BL	BL	BL	BL	PASS
7	Brown plastic (Pan)	BL	BL	BL	BL	BL	PASS
8	Apricot plastic (Knife & fork)	BL	BL	BL	BL	BL	PASS
9	White plastic (Clothes stand)	BL	BL	BL	BL	BL	PASS
10	Apricot plastic (Cup)	BL	BL	BL	BL	BL	PASS
11	White plastic (Cup)	BL	BL	BL	BL	BL	PASS
12	Silvery metal electrode plating	BL	BL	BL	NA	BL	PASS
13	Lt. Green plastic	BL	BL	BL	BL	BL	PASS
14	Apricot plastic (Egg)	BL	BL	BL	BL	BL	PASS
15	Lt. Brown plastic (Turkey)	BL	BL	BL	BL	BL	PASS
16	Red plastic (Fruit)	BL	BL	BL	BL	BL	PASS
17	Orange plastic (Fruit)	BL	BL	BL	BL	BL	PASS
18	Red brown plastic (Sausage)	BL	BL	BL	BL	BL	PASS
19	Kelly plastic (Vegetable)	BL	BL	BL	BL	BL	PASS
20	Coffee plastic (Beef)	BL	BL	BL	BL	BL	PASS
21	Kelly plastic (Lemon)	BL	BL	BL	BL	BL	PASS
22	Red plastic (Strawberry)	BL	BL	BL	BL	BL	PASS
23	Orange plastic (Carrot)	BL	BL	BL	BL	BL	PASS
24	Red plastic (Castor)	BL	BL	BL	BL	BL	PASS
25	White paper w/ gray printing (Drinking fountain)	BL	BL	BL	BL	BL	PASS
26	Transparent plastic (Drinking fountain)	BL	BL	BL	BL	BL	PASS
27	Transparent black plastic (Drinking fountain)	BL	BL	BL	BL	BL	PASS
28	Apricot plastic body	BL	BL	BL	BL	BL	PASS
29	Brown plastic body	BL	BL	BL	BL	BL	PASS
30	Dull green plastic (Drinking fountain)	BL	BL	BL	BL	BL	PASS
31	White plastic body	BL	BL	BL	BL	BL	PASS
32	Transparent Lt. Blue plastic (Roaster)	BL	BL	BL	BL	BL	PASS
33	Transparent plastic (Roaster)	BL	BL	BL	BL	BL	PASS
34	Lt. Green plastic (Cooking range)	BL	BL	BL	BL	BL	PASS
35	Red plastic (Toaster)	BL	BL	BL	BL	BL	PASS
36	Cream plastic (Toaster)	BL	BL	BL	BL	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
37	Translucent dry glue	BL	BL	BL	BL	BL	PASS
38	Dull green plastic (Dish)	BL	BL	BL	BL	BL	PASS
39	Blue green plastic (Cup & knife)	BL	BL	BL	BL	BL	PASS
40	Yellow plastic (Iron)	BL	BL	BL	BL	BL	PASS
41	Purple plastic (Toaster)	BL	BL	BL	BL	BL	PASS
42	Blue green plastic body	BL	BL	BL	BL	BL	PASS
43	Dull green plastic body	BL	BL	BL	BL	BL	PASS
44	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	X	Refer to chemical method
45	Silvery metal spring (Battery compartment)	BL	BL	BL	NA	X	Refer to chemical method
46	Silvery metal solder (Battery compartment)	BL	BL	BL	NA	BL	PASS
47	White plastic gear	BL	BL	BL	BL	BL	PASS
48	Silvery metal shaft	BL	BL	BL	NA	BL	PASS
49	Brown capacitor body w/ black printing (Submitted on April 29, 2020)	BL	BL	BL	BL	BL	PASS
50	Silvery metal pin (Capacitor) (Submitted on April 29, 2020)	BL	X	BL	NA	BL	Refer to chemical method
51	Transparent LED body	BL	BL	BL	X	BL	Refer to chemical method
52	Silvery metal pin (Transparent LED)	BL	BL	BL	NA	BL	PASS
53	Silvery metal solder (Transparent LED) (Submitted on April 29, 2020)	BL	BL	BL	NA	BL	PASS
54	White plastic terminal (Push switch)	BL	BL	BL	BL	BL	PASS
55	Gray plastic frame (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
56	Dull silvery metal spring(Push switch)	BL	BL	BL	NA	BL	PASS
57	Dull silvery "V" shaped metal part (Push switch)	BL	BL	BL	NA	X	Refer to chemical method
58	Black plastic frame (Push switch)	BL	BL	BL	BL	BL	PASS
59	Black plastic part (Push switch)	BL	BL	BL	BL	BL	PASS
60	Silvery & golden metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
61	Silvery metal solder (Push switch) (Submitted on April 29, 2020)	BL	BL	BL	NA	BL	PASS
62	Cream plastic frame (Speaker)	BL	BL	BL	BL	BL	PASS
63	Transparent plastic slice (Speaker)	BL	BL	BL	BL	BL	PASS
64	Coppery enameled wire (Speaker)	BL	BL	BL	BL	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
65	Iridescent "T" shaped metal part (Speaker)	BL	BL	BL	NA	X	Refer to chemical method
66	Iridescent metal washer (Speaker)	BL	BL	BL	NA	X	Refer to chemical method
67	Black magnet (Speaker)	BL	BL	BL	BL	BL	PASS
68	Cream hardboard (Speaker)	BL	BL	BL	X	BL	Refer to chemical method
69	Silvery metal solder (Speaker)	BL	BL	BL	NA	BL	PASS
70	Cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
71	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS
72	Translucent cream plastic piece (Motor)	BL	BL	BL	BL	BL	PASS
73	Coppery metal brush (Motor)	BL	BL	BL	NA	BL	PASS
74	Translucent cream plastic bushing (Motor)	BL	BL	BL	X	BL	Refer to chemical method
75	Coppery metal tube plate (Motor)	BL	BL	BL	NA	BL	PASS
76	Black washer w/ silvery layer backing (Motor)	BL	BL	BL	BL	BL	PASS
77	Silvery metal solder (Washer) (Motor)	BL	BL	BL	NA	BL	PASS
78	Dull coppery metal washer (Motor)	BL	BL	BL	NA	BL	PASS
79	Golden metal washer (Small) (Motor)	BL	BL	BL	NA	BL	PASS
80	Silvery metal shaft (Motor)	BL	BL	BL	NA	BL	PASS
81	Dull silvery "U" shaped metal part (Motor)	BL	BL	BL	NA	BL	PASS
82	Silvery metal rotor (Motor)	BL	BL	BL	NA	X	Refer to chemical method
83	White plastic rotor (Motor)	BL	BL	BL	BL	BL	PASS
84	Coppery enameled wire (Motor)	BL	BL	BL	BL	BL	PASS
85	Black magnet (Motor)	BL	BL	BL	BL	BL	PASS
86	Silvery metal solder (Motor)	BL	BL	BL	NA	BL	PASS
87	Black material on PCB	BL	BL	BL	BL	BL	PASS
88	Cream PCB w/ green & white printing	BL	BL	BL	BL	BL	PASS
89	Silvery metal solder (Cream PCB)	BL	BL	BL	NA	BL	PASS
90	Red plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
91	White plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
92	Green plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
93	Yellow plastic (Wire jacket) (Submitted on April 29, 2020)	BL	BL	BL	BL	BL	PASS
94	Coppery metal core wire	BL	BL	BL	NA	BL	PASS
95	Silvery blue metal screw	BL	BL	BL	NA	X	Refer to chemical method



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RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated diphenylethers (PBDEs)	0.1%

Remark: (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs/PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	mg/kg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	mg/kg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	mg/kg	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	mg/kg	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

BL = Below Limit by XRF analysis

OL = Over Limit by XRF analysis

X = Inconclusive

LOD = Limit of Detection

NA = Not Applicable

1% = 10000 mg/kg = 10000 ppm

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU



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EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Hexavalent Chromium, PBBs & PBDEs content

Method: With reference to IEC62321-5:2013, IEC62321-7-1:2015, IEC62321-6:2015

For Lead, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	44	45	50		
Lead (Pb)	--	--	ND	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	--	See Note	#
Sum of PBBs	--	--	--	--	1000
Monobromobiphenyl	--	--	--	100	--
Dibromobiphenyl	--	--	--	100	--
Tribromobiphenyl	--	--	--	100	--
Tetrabromobiphenyl	--	--	--	100	--
Pentabromobiphenyl	--	--	--	100	--
Hexabromobiphenyl	--	--	--	100	--
Heptabromobiphenyl	--	--	--	100	--
Octabromobiphenyl	--	--	--	100	--
Nonabromobiphenyl	--	--	--	100	--
Decabromobiphenyl	--	--	--	100	--
Sum of PBDEs	--	--	--	--	1000
Monobromodiphenyl ether	--	--	--	100	--
Dibromodiphenyl ether	--	--	--	100	--
Tribromodiphenyl ether	--	--	--	100	--
Tetrabromodiphenyl ether	--	--	--	100	--
Pentabromodiphenyl ether	--	--	--	100	--
Hexabromodiphenyl ether	--	--	--	100	--
Heptabromodiphenyl ether	--	--	--	100	--
Octabromodiphenyl ether	--	--	--	100	--
Nonabromodiphenyl ether	--	--	--	100	--
Decabromodiphenyl ether	--	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	51	55	57		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	Negative	See Note	#
Sum of PBBs	ND	ND	--	--	1000
Monobromobiphenyl	ND	ND	--	100	--
Dibromobiphenyl	ND	ND	--	100	--
Tribromobiphenyl	ND	ND	--	100	--
Tetrabromobiphenyl	ND	ND	--	100	--
Pentabromobiphenyl	ND	ND	--	100	--
Hexabromobiphenyl	ND	ND	--	100	--
Heptabromobiphenyl	ND	ND	--	100	--
Octabromobiphenyl	ND	ND	--	100	--
Nonabromobiphenyl	ND	ND	--	100	--
Decabromobiphenyl	ND	ND	--	100	--
Sum of PBDEs	ND	ND	--	--	1000
Monobromodiphenyl ether	ND	ND	--	100	--
Dibromodiphenyl ether	ND	ND	--	100	--
Tribromodiphenyl ether	ND	ND	--	100	--
Tetrabromodiphenyl ether	ND	ND	--	100	--
Pentabromodiphenyl ether	ND	ND	--	100	--
Hexabromodiphenyl ether	ND	ND	--	100	--
Heptabromodiphenyl ether	ND	ND	--	100	--
Octabromodiphenyl ether	ND	ND	--	100	--
Nonabromodiphenyl ether	ND	ND	--	100	--
Decabromodiphenyl ether	ND	ND	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	65	66	68		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	--	See Note	#
Sum of PBBs	--	--	ND	--	1000
Monobromobiphenyl	--	--	ND	100	--
Dibromobiphenyl	--	--	ND	100	--
Tribromobiphenyl	--	--	ND	100	--
Tetrabromobiphenyl	--	--	ND	100	--
Pentabromobiphenyl	--	--	ND	100	--
Hexabromobiphenyl	--	--	ND	100	--
Heptabromobiphenyl	--	--	ND	100	--
Octabromobiphenyl	--	--	ND	100	--
Nonabromobiphenyl	--	--	ND	100	--
Decabromobiphenyl	--	--	ND	100	--
Sum of PBDEs	--	--	ND	--	1000
Monobromodiphenyl ether	--	--	ND	100	--
Dibromodiphenyl ether	--	--	ND	100	--
Tribromodiphenyl ether	--	--	ND	100	--
Tetrabromodiphenyl ether	--	--	ND	100	--
Pentabromodiphenyl ether	--	--	ND	100	--
Hexabromodiphenyl ether	--	--	ND	100	--
Heptabromodiphenyl ether	--	--	ND	100	--
Octabromodiphenyl ether	--	--	ND	100	--
Nonabromodiphenyl ether	--	--	ND	100	--
Decabromodiphenyl ether	--	--	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	74	82	95		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	Negative	Negative	See Note	#
Sum of PBBs	ND	--	--	--	1000
Monobromobiphenyl	ND	--	--	100	--
Dibromobiphenyl	ND	--	--	100	--
Tribromobiphenyl	ND	--	--	100	--
Tetrabromobiphenyl	ND	--	--	100	--
Pentabromobiphenyl	ND	--	--	100	--
Hexabromobiphenyl	ND	--	--	100	--
Heptabromobiphenyl	ND	--	--	100	--
Octabromobiphenyl	ND	--	--	100	--
Nonabromobiphenyl	ND	--	--	100	--
Decabromobiphenyl	ND	--	--	100	--
Sum of PBDEs	ND	--	--	--	1000
Monobromodiphenyl ether	ND	--	--	100	--
Dibromodiphenyl ether	ND	--	--	100	--
Tribromodiphenyl ether	ND	--	--	100	--
Tetrabromodiphenyl ether	ND	--	--	100	--
Pentabromodiphenyl ether	ND	--	--	100	--
Hexabromodiphenyl ether	ND	--	--	100	--
Heptabromodiphenyl ether	ND	--	--	100	--
Octabromodiphenyl ether	ND	--	--	100	--
Nonabromodiphenyl ether	ND	--	--	100	--
Decabromodiphenyl ether	ND	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - -- = Not Conducted
 - Negative = The Cr(VI) concentration is below 0.10ug/cm². The coating is considered a non- Cr(VI) based coating.
 - Positive = The Cr(VI) concentration is above 0.13ug/cm² and the statistical margin of error. The coating is considered to contain Cr(VI).
 - Inconclusive = The Cr(VI) concentration is between the value of 0.10ug/cm² to 0.13ug/cm². Unavoidable coating variations may influence the determination. Additional 3 trials should be tested, use the averaged result of the 3 trials for the final determination.
 - Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing
 - # Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.

1.2 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	1	2	3		
Alias No.	--	4	4	4		
Tracing No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	346	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	4			
Alias No.	--	4			
Tracing No.	--	4			
Dibutyl Phthalate (DBP)	84-74-2	ND		100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND		100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND		100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND		100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	5	6		
Alias No.	--	4	4		
Tracing No.	--	5	6		
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	BL	600	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	7	8		
Alias No.	--	4	4		
Tracing No.	--	7	8		
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	BL	600	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)	MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	9		
Alias No.	--	4		
Tracing No.	--	9		
Dibutyl Phthalate (DBP)	84-74-2	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	600	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	10	11		
Alias No.	--	01T-3	01T-3		
Tracing No.	--	1	2		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	100	1000



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Specimen Description:

1. Orange coating (Bread)
2. Red plastic (Wire jacket)
3. White plastic (Wire jacket)
4. Green plastic (Wire jacket)
5. Brown paper box w/ multi-color printing+Beige plastic (Bread)+Brown plastic (Dish)+Brown plastic (Pan)+Apricot plastic (Knife & fork)+White plastic (Clothes stand)+Apricot plastic (Cup)+White plastic (Cup)+Lt. Green plastic +Apricot plastic (Egg)+Lt. Brown plastic (Turkey)+Red plastic (Fruit)+Orange plastic (Fruit)+Red brown plastic (Sausage)+Kelly plastic (Vegetable)+Coffee plastic (Beef)+Kelly plastic (Lemon)+Red plastic (Strawberry)+Orange plastic (Carrot)+Red plastic (Castor)
6. White paper w/ gray printing (Drinking fountain)+Transparent plastic (Drinking fountain)+Transparent black plastic (Drinking fountain)+Apricot plastic body+Brown plastic body+Dull green plastic (Drinking fountain)+White plastic body+Transparent Lt. Blue plastic (Roaster)+Transparent plastic (Roaster)+Lt. Green plastic (Cooking range)+Red plastic (Toaster)+Cream plastic (Toaster)+Translucent dry glue+Dull green plastic (Dish)+Blue green plastic (Cup & knife)+Yellow plastic (Iron)+Purple plastic (Toaster)+Blue green plastic body+Dull green plastic body+White plastic gear
7. Transparent LED body+White plastic terminal (Push switch)+Gray plastic frame (Push switch)+Black plastic frame (Push switch)+Cream plastic frame (Speaker)+Cream plastic cover (Motor)+Black washer w/ silvery layer backing (Motor)+Coppery enameled wire (Motor)+Cream PCB w/ green & white printing
8. Black plastic part (Push switch)+Transparent plastic slice (Speaker)+Coppery enameled wire (Speaker)+Cream hardboard (Speaker) +Translucent cream plastic piece (Motor) +Translucent cream plastic bushing (Motor)+White plastic rotor (Motor)+Black material on PCB
9. White label paper w/ multi-color printing +Transparent plastic adhesive tape
10. Yellow plastic (Wire jacket) (Submitted on April 29, 2020)
11. Brown capacitor body w/ black printing (Submitted on April 29, 2020)



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Note: - Screening results of 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).

Compound	Polymer
DBP	BL ≤ 600 < X
BBP	BL ≤ 600 < X
DEHP	BL ≤ 600 < X
DIBP	BL ≤ 600 < X

- BL = Below MDL of screening test
- X = Inconclusive
- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- The result(s) is (are) calculated using the minimum specimen weight for composite test.

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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012): When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), $w = U_{95}$. The Probability of False Accept of the decision rule is 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_U - U_{95}$, $T_U + U_{95}$]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_L - U_{95}$, $T_L + U_{95}$]



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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



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Sample Picture (As received)

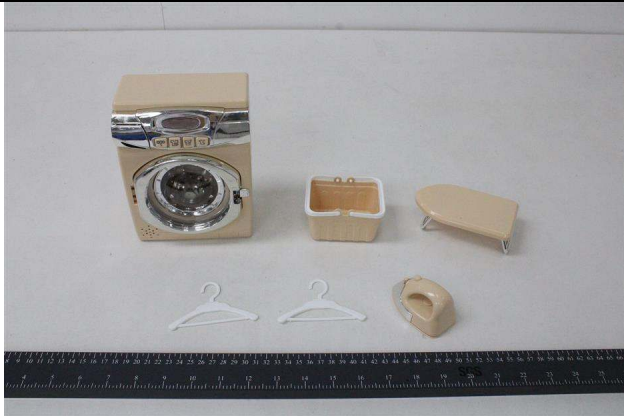
Pic.5



Pic.6



Pic.7



Pic.8



SGS-CSTC (Shenzhen) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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Sample Picture (As received)

Pic.9



Pic.10



Pic.11



Pic.12

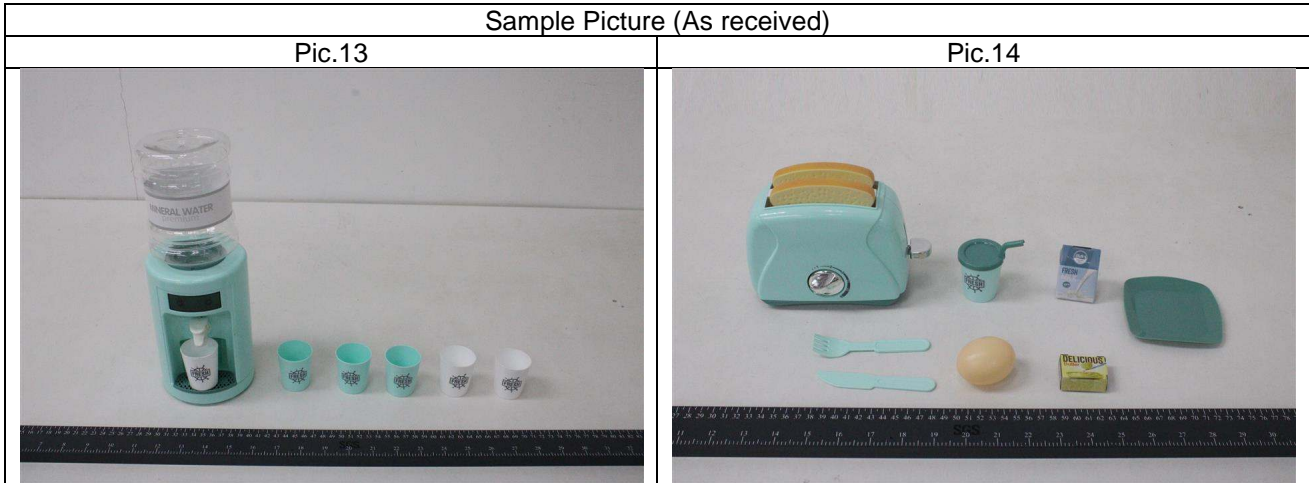


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