



## Test Report

No.T52010231289TC

Date: MAR 30, 2020

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SHENZHEN GOLDEN TREES TECHNOLOGY CO.,LTD  
NO.3,NANTONG BLVD,BAO LONG INDUSTRIAL AREA  
LONG GANG DISTRICT,SHENZHEN,CHINA

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

### COLORFUL SILICONE LAMP

Item No. : JL-213, COVERING ITEM NO: JL-210, JL-211, JL-212, JL-214, JL-215, JL-216, JL-217, JL-218, JL-219, JL-220, JL-221, JL-222, JL-223, JL-224, JL-225, JL-226, JL-227, JL-228, JL-229, JL-230, JL-231, JL-232, JL-233, JL-234, JL-235, JL-236, JL-237, JL-238, JL-239, JL-240, JL-241, JL-242, JL-243, JL-244, JL-245, JL-246, JL-247, JL-248, JL-249

Buyer : CARREFOUR

Manufacturer : SHENZHEN GOLDEN TREES TECHNOLOGY CO.,LTD

Country of Origin : CHINA

Sample Receiving Date : MAR 17, 2020

Testing Period : MAR 17, 2020 TO MAR 30, 2020



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Test Requested	Conclusion
1. European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances  (Selected test items as specified by the applicant, please refer to test result page(s) for details)	--
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

\*\*\*\*\* 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	White silicone rubber shell	BL	BL	BL	BL	BL	PASS
2	White plastic part	BL	BL	BL	BL	BL	PASS
3	Translucent plastic part	BL	BL	BL	BL	BL	PASS
4	Translucent rubber part	BL	BL	BL	BL	BL	PASS
5	Black plastic part (Connector)	BL	BL	BL	X	BL	Refer to chemical method
6	Silvery metal part (Connector)	BL	BL	BL	NA	BL	PASS
7	Silvery metal pin (Connector)	BL	BL	BL	NA	BL	PASS
8	Silvery metal shell (Socket)	BL	BL	BL	NA	BL	PASS
9	Black plastic part (Socket)	BL	BL	BL	BL	BL	PASS
10	Silvery metal pin (Socket)	BL	BL	BL	NA	BL	PASS
11	Reddish blue plastic sheet w/ white printing (Motion switch)	BL	BL	BL	BL	BL	PASS
12	Black plastic tube (Motion switch)	BL	BL	BL	BL	BL	PASS
13	Black material (Motion switch)	BL	BL	BL	BL	BL	PASS
14	Coppery metal spring (Motion switch)	BL	BL	BL	NA	BL	PASS
15	Silvery metal pin (Motion switch)	BL	BL	BL	NA	BL	PASS
16	Black plastic terminal (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
17	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
18	Coppery & silvery metal round plate (Push switch)	BL	BL	BL	NA	BL	PASS
19	Black plastic frame (Push switch)	BL	BL	BL	BL	BL	PASS
20	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
21	Off-white soft plastic shell (USB)	BL	BL	BL	BL	BL	PASS
22	Silvery metal shell (USB)	BL	BL	BL	NA	BL	PASS
23	White plastic part (USB)	BL	BL	BL	BL	BL	PASS
24	Silvery metal pin (USB)	BL	BL	BL	NA	BL	PASS
25	Silvery metal solder (USB)	BL	BL	BL	NA	BL	PASS
26	Silvery metal shell (Plug)	BL	BL	BL	NA	X	Refer to chemical method



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
27	Black plastic part (Plug)	BL	BL	BL	X	BL	Refer to chemical method
28	Silvery metal part (Plug)	BL	BL	BL	NA	X	Refer to chemical method
29	Silvery metal pin (Plug)	BL	BL	BL	NA	BL	PASS
30	Black chip IC (14 pins)	BL	BL	BL	BL	BL	PASS
31	Black chip IC (6 pins)	BL	BL	BL	BL	BL	PASS
32	White chip LED	BL	BL	BL	BL	BL	PASS
33	Beige PCB w/ white & black printing	BL	BL	BL	X	BL	Refer to chemical method
34	Silvery metal solder (Beige PCB)	BL	BL	BL	NA	BL	PASS
35	Cream PCB w/ green & white printing	BL	BL	BL	X	BL	Refer to chemical method
36	Silvery metal solder (Cream PCB)	BL	BL	BL	NA	BL	PASS
37	White plastic (Outside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
38	Red plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
39	Black plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
40	Coppery metal core wire	BL	BL	BL	NA	BL	PASS
41	Silvery metal screw	BL	BL	BL	NA	BL	PASS
42	Silvery metal cap screw	BL	BL	BL	NA	BL	PASS

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%



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

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

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

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

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	5	16	26		
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	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	27	28		
Hexavalent Chromium (CrVI) by boiling water extraction	--	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	--
<b>Comment</b>	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	33	35		
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	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	--
<b>Comment</b>	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/cm<sup>2</sup>. The coating is considered a non- Cr(VI) based coating.
  - Positive = The Cr(VI) concentration is above 0.13ug/cm<sup>2</sup> 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/cm<sup>2</sup> to 0.13ug/cm<sup>2</sup>. 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.

### Sample Photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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

SGS Bldg, No. 4, Jianghao Industrial Park, No. 430, Jihua Road, Banlan, Longgang District, Shenzhen, China 518129 t (86-755) 25328888 f (86-755) 83106190 www.sgs.com.cn  
中国·深圳·龙岗区坂田吉华路430号江灏工业园4栋SGS大楼 邮编: 518129 t (86-755) 25328888 f (86-755) 83106190 e sgs.china@sgs.com