

TEST REPORT

SAMPLE INFORMATION:

1. Sample Description: LED tri-proof light

2. Trade Mark:

3. Model, Specification, Grade: RE-T015a-60ccdd-00, RE-T015a-40ccdd-00, RE-T014a-50ccdd-00,

RE-T014a-40ccdd-00, RE-T012a-30ccdd-00, RE-T012a-20ccdd-00, RE-T025a-60ccdd-00, RE-T025a-40ccdd-00, RE-T024a-50ccdd-00, RE-T024a-40ccdd-00, RE-T022a-30ccdd-00, RE-T022a-20ccdd-00,

4. Manufacturer: Shenzhen Recolux Lighting Co.,Ltd.

5. Manufacturer Address: 2F, BaoZi Road#57, KengZI, PingShan, ShenZhen, 518122, PRC

6. Applicant: Shenzhen Recolux Lighting Co.,Ltd.

7. Applicant Address: 2F, BaoZi Road#57, KengZI, PingShan, ShenZhen, 518122, PRC

8. Test Standards: 1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg),

Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF.

2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1: 2013, further use of wet chemical methods are required to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated

Diphenyl Ethers(PBDEs) in the submitted sample(s).

REMARKS:

- 1. The test data obtained and the report issued by laboratories other than TMC are provided by the applicant to us for data consolidation purposes. The report shall not be reproduced in part without written approval of us.
- 2. Characterization & Condition of sample: Normal.
- 3. Ambient Condition during Testing: (15-22) ℃ (20-40) % RH
- 4. Date of Issued: September 19, 2018

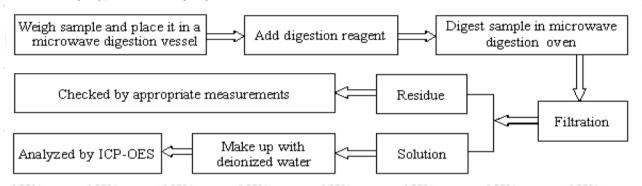
11 ,	Certific	cation Mana	ger	
Approved by:	110.	110.	LD.	10.



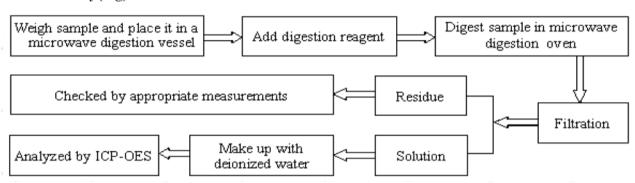
TEST REPORT

Test process

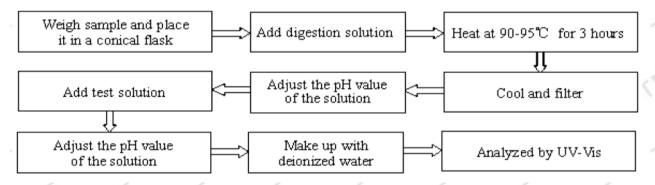
Lead(Pb), Cadmium(Cd)



Mercury(Hg)



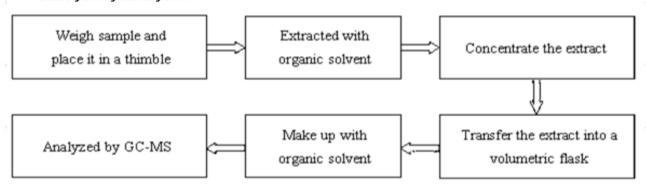
Hexavalent Chromium (Cr(VI))





TEST REPORT

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs), DIBP, DBP, DEHP, BBP





TEST REPORT

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	White transparent	Cd	P	N.D.	<100	P
NI	plastic lampshade	Cr	P	N.D.	<1000	P
1	7. 7.	Hg	P	N.D.	<1000	P
-	, ,	Pb	P	N.D.	<1000	P
· W	W. W.	PBBs	D M	N.D.	<1000	P
1.	11. 11.	PBDEs	D	N.D.	<1000	P
2	White plastic case	Cd	P	N.D.	<100	P
MIN C	ain ain	Cr	P	N.D.	<1000	P
(12.	14. 14.	Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
in C	nc 200	PBBs	D	N.D.	<1000	P
(La.	14. 16.	PBDEs	D	N.D.	<1000	P
3	plastic lamp socket	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
411	LAN LAN	Hg	P / W	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
6		PBBs	D	N.D.	<1000	P
MI	W W	PBDEs	D	N.D.	<1000	P
4	PCB	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
MIL	N's Oliv	Hg	P	N.D.	<1000	P
110	110 110	Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
	and and	PBDEs	D	N.D.	<1000	P
5	soldering tin	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
. a C		Hg	P	N.D.	<1000	P
Chi.	LIN LIN	Pb	P The	N.D.	<1000	P
		PBBs	D	N.A.	<1000	P
		PBDEs	D	N.A.	<1000	P
6	driver module	Cd	P	N.D.	<100	P
	1.	Cr	P	N.D.	<1000	P
	/	Hg	P	N.D.	<1000	P
LANC LAN	No Who	Pb	P	N.D.	<1000	P
	11. 11.	PBBs	D	N.A.	<1000	P
		PBDEs	D	N.A.	<1000	P
7,10	The red wire	Cd	P	N.D.	<100	P
(L.	In. In.	Cr	P	N.D.	<1000	P
	= =====================================	Hg	P	N.D.	<1000	P
in C	, C .	Pb	P	N.D.	<1000	P
121	1 KM 1 KM	PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P

TMC Testing Services(Shenzhen) Co., Ltd.
Testing&Certification Services

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TEST REPORT

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
8	The blue line	Cd	P	N.D.	<100	P
U.	14, 14,	Cr	P Th	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
	. ((Pb	P	N.D.	<1000	P
Ny	LAN LAN.	PBBs	D	N.D.	<1000	P
	./.	PBDEs	D	N.D.	<1000	P
9	Black wire	Cd	P	N.D.	<100	P
Mr.	in mi	Cr	P	N.D.	<1000	P
1	11, 11,	Hg	P	N.D.	<1000	P
	038	Pb	P	N.D.	<1000	P
-inC	an C an	PBBs	D	N.D.	<1000	P
La.	14. 14.	PBDEs	D	N.D.	<1000	P
10	The yellow wire	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
131	4 ky	Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
-	(PBBs	D	N.D.	<1000	P e
No	W W	PBDEs	D O	N.D.	<1000	P
11	The gray connection	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
MIL	anc an	Hg	P M	N.D.	<1000	P
10	110. 110.	Pb	P	N.D.	<1000	P
		PBBs	D	N.D.	<1000	P
nC nC n	· · · · · · · · · · · · · · · · · · ·	PBDEs	D	N.D.	<1000	P
12	screw	Cd	P	N.D.	<100	P
		Cr	P	N.D.	<1000	P
. C.	.(, ,(Hg	P	N.D.	<1000	P
GU.	LAN LAN.	Pb	P	N.D.	<1000	P
		PBBs	D	N.A.	<1000	P
-	/ /	PBDEs	D	N.A.	<1000	P
13	Lamp beads	Cd	P	N.D.	<1000	P
Lam		Cr	P	N.D.	<1000	P
		Hg	P	N.D.	<1000	P
MC	Mrs. Mrs.	Pb	P	N.D.	<1000	P
in, Lin,	In. In.	PBBs	D	N.D.	<1000	P
		PBDEs	D	N.D.	<1000	P
14	label	Cd	P	N.D.	<1000	P
12/1	14001	Cr	P	N.D.	<1000	P
2		Hg	P	N.D.	<1000	P
	. (. (Pb	P	N.D.	-	P
	- Mr - MI	PBBs	D	N.D.	<1000	P
40	7. 7.	PBDEs	D	N.D.	<1000	P
		LDDE8	ע	א.ש.	<1000	r

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SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
15	Printed White INK	Cd	P	N.D.	<100	P
- W	LAN WAY	Cr	P	N.D.	<1000	P
1. 1. 1.	7. 7.	Hg	P	N.D.	<1000	P
-	, ,	Pb	P	N.D.	<1000	P
· No	1/2 - 1/2.	PBBs	D M	N.D.	<1000	P
11, 11, 1	11. 11.	PBDEs	D	N.D.	<1000	P
16	Plastic stickers	Cd	P	N.D.	<100	P
-in-C	an C and	Cr	P	N.D.	<1000	P
(b. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10. 10.	Hg	P	N.D.	<1000	P
		Pb	P	N.D.	<1000	P
.nC)n	PBBs	D	N.D.	<1000	P
100	1 km 1 km	PBDEs	D Killy	N.D.	<1000	P

TEST REPORT

Report No.: TMC180914103-C

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 $_{\circ}$

(2) Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb,

 $Hg), UV\text{-}VIS\ (Cr(VI))\ and\ GCMS\ (for\ PBBs,\ PBDEs)\ is\ recommended\ to\ be\ performed,\ if\ the$

concentration exceeds the below warning value according to IEC 62321:2013 (unit:mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	P≤70-3σ <d<130+3σ≤f< td=""><td>P≤70-3σ<d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<></td></d<130+3σ≤f<>	P≤70-3σ <d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<>	P≤50-3σ <d<150+3σ≤f< td=""></d<150+3σ≤f<>
Pb	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Hg	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Br	P≤300-3σ <d< td=""><td>·</td><td>P≤250-3σ<d< td=""></d<></td></d<>	·	P≤250-3σ <d< td=""></d<>
Cr	P≤700-3σ <d< td=""><td>P≤700-3σ<d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<></td></d<>	P≤700-3σ <d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<>	P≤500-3σ <d< td=""></d<>

P = PASS: F = FAIL: D = DETECTED:

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

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



TEST REPORT

Sample photo:

Photo 1



Photo 2



TMC authenticate the photo on original report only

*** End of Report ***

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