

Report No: BSTD	G201215675401CR	Date: Dec.25, 2020	Page 1 of 8	
 Applicant : SHENZHEN LEDWORKER LIGHTING CO., LTD Address : 5th Floor, Building A, Baitong Science Park, No. 150, Shasong Road, Shajing, Baoan, Shenzhen 				
The following sam	ple(s) was /were submitted a	and identified on behalf of the c	lients as:	
Sample Name	: COB LED S	TRIP		
Trade Name		ORKER		
Sample Model	LW-COB008	3 1, LW-COB003, LW-COB005, 3, LW-COB010, LW-COB012, 0, LW-COB122, LW-COB138		
Sample Received	Date : Dec.22, 2020)		
Testing Period	: Dec.22, 2020	08 To Dec.25, 2020		
Test Requested		11/65/EU Annex II (EU) 2015	quested by client with the RoHS 2 /863 as last amended by Directive	
Test Method	: Please refer	to next page(s).		
Test Result	: Please refer	to next page(s).		

Signed for and on behalf of



King Mei/Approved Signatory

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PB	Bs	PBDEs		
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether	
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether	
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether	
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether	
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether	

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Sample Description:

No.	Description	Name	
1	Plastic	Lamp	
2	Plastic	Black Line Skin	
3	Plastic	Red Line Skin	
4	Metal	Wire Core	
5	LED	LED	
6	Resistance	Resistance	
7	Capacitance	Capacitance	

Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.		N.D.
PBDEs	N.D.	N.D.	N.D.		N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.		N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.		N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.		N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.		N.D.

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Test Item(s)	No.6	No.7
Cadmium (Cd)	N.D.	N.D.
Lead (Pb)	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.
PBBs	N.D.	N.D.
PBDEs	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.

Note: 1. mg/kg= ppm

- 2. N.D.= Not Detected(<MDL)
- 3. MDL = Method Detection Limit
- 4. -- = No Testing
- 5. when Cr(VI) in a sample is detected below the 0.10 µg/cm² LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 µg/cm² and 0.13 µg/cm² has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 µg/cm², the sample is considered to be positive for the presence of Cr(VI) in the coating layer. 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.

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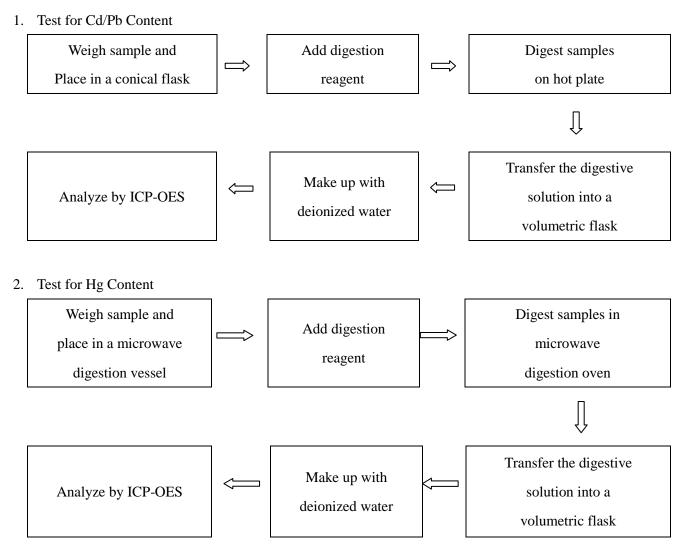


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Test Process:



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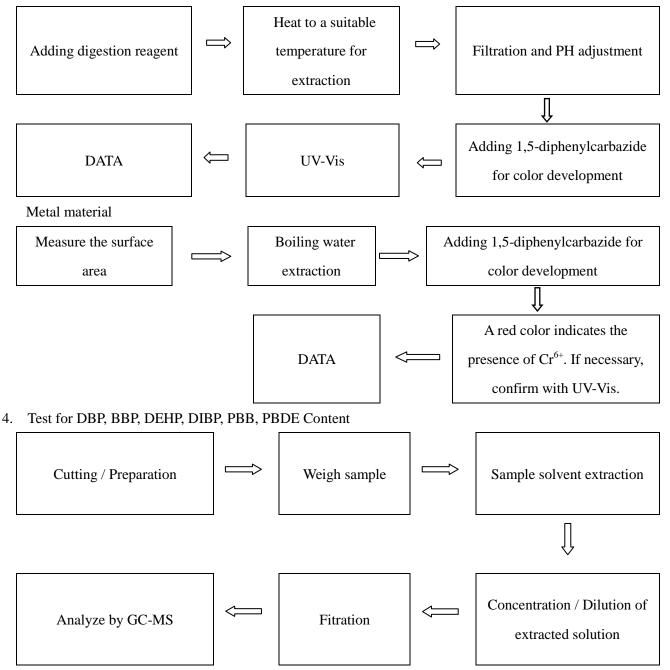
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3. Test for Chromium (VI) Content

Nonmetal material



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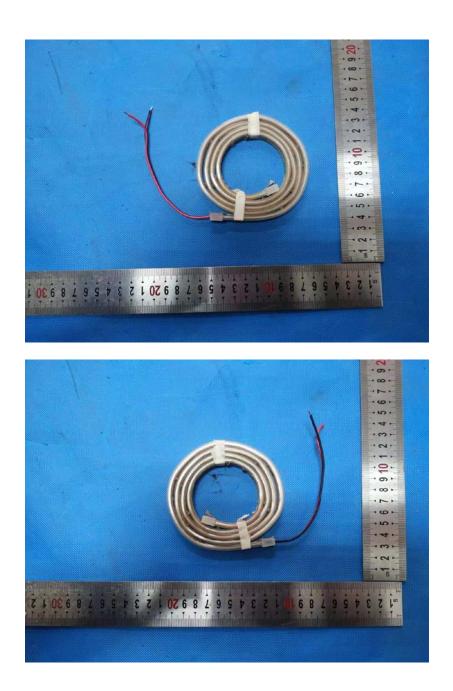


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Sample Photo:



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*** End of Report ***

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