

Test Report

No. C230213068001-1

Date: Feb 22, 2023

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Applicant: GUANGDONG OML TECHNOLOGY CO., LTD

Applicant address: NO.38, HeTong Road, DongFeng Town, ZhongShan City, China

The following samples were submitted and identified on behalf of the clients as

Sample Name: LED Strip Light
Model: OML-SMD2835-60P-DC12V-IP20-2700k
Model/Type reference: Please refer to next page(s).
CPST Internal Reference No.: C230213068
Sample Received Date: Feb 13, 2023
Test Period: Feb 13, 2023 to Feb 22, 2023
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).



Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

REVIEWED BY:

APPROVED BY:

Fair Lu

Lu Jian Fei, Fair
Report writer

Sunshine Liu

Liu Xiao Fang, Sunshine
Report Reviewer

Will Pan

Pan Jian Ding, Will
Technical Supervisor

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Eurones (Dongguan) Consumer Products Testing Service Co., Ltd. Tel: (86-769) 38937858 Fax: (86-769) 38937859 Http:// www.cpstlab.com
Room 1092, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China Postcode: 523945 E-mail: service@cpstlab.com

CONCLUSION :

TESTED SAMPLES	TEST ITEM	RESULT
LED Strip Light	1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863	
	— Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
	—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	PASS

Model	Equivalent Model	Model	Equivalent Model
OML-SMD2835-60P-DC12V-IP20-2700K	100405	OML-SMD5050-60P-DC12V-IP20-3000K	100408
OML-SMD2835-60P-DC12V-IP20-4000K	100406	OML-SMD5050-60P-DC12V-IP20-4000K	100409
OML-SMD2835-60P-DC12V-IP20-6000K	/	OML-SMD5050-60P-DC12V-IP20-6000K	100410
OML-SMD2835-120P-DC12V-IP20-3000K	100434	OML-SMD5050-60P-DC24V-IP20-3000K	100422
OML-SMD2835-120P-DC12V-IP20-4000K	100435	OML-SMD5050-60P-DC24V-IP20-4000K	100423
OML-SMD2835-120P-DC12V-IP20-6000K	/	OML-SMD5050-60P-DC24V-IP20-6000K	/
OML-SMD2835-120P-DC24V-IP20-3000K	100440	OML-SMD5050-120P-DC12V-IP20-3000K	/
OML-SMD2835-120P-DC24V-IP20-4000K	100441	OML-SMD5050-120P-DC12V-IP20-4000K	/
OML-SMD2835-120P-DC24V-IP20-6000K	/	OML-SMD5050-120P-DC12V-IP20-6500K	/
OML-SMD5050-60P- DC12V-RGB-IP20	100411	OML-SMD5050-60P- DC24V-RGB+W-IP20	100425
OML-SMD5050-60P- DC12V-RGB+W-IP20	100412	OML-SMD5050-2835-180P- DC24V-(RGB+TW)-IP20	/
OML-SMD5050-60P- DC24V-RGB-IP20	100424	OML-SMD5050-60P-DC12V- IP20-RED	/
OML-SMD2835-200P-DC12V-IP20	/	/	/

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2. Test Item Description And Photo List

Sample No.	Description	Photograph
001	Silvery solder	
002	Red soft plastic (wire jacket)	
003	Red/black soft plastic (wire jacket)	
004	Copper metal (wire core)	
005	Black soft plastic (tube)	
006	Yellow body	
007	Black body with white printing	
008	White FPC	
009	Silvery solder	
010	Transparent double-sided glue	
011	Black plastic	
012	White paper with black printing	

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3. Test Results

3.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

- Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
- Bromine Content Test

According to IEC 62321-3-1:2013, and Quantification analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 001	BL	BL	BL	BL	N.A.
Sample 002	BL	BL	BL	BL	BL
Sample 003	Inconclusive^	BL	BL	BL	BL
Sample 004	BL	BL	BL	BL	N.A.
Sample 005	BL	BL	BL	BL	BL
Sample 006	BL	BL	BL	BL	BL
Sample 007	BL	OL^	BL	BL	BL
Sample 008	BL	BL	BL	BL	BL
Sample 009	BL	BL*	BL	BL	N.A.
Sample 010	BL	BL	BL	BL	BL
Sample 011	BL	BL	BL	BL	BL*
Sample 012	BL	BL	BL	BL	BL

Note:

1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm
2. "OL" denotes "over limit"
3. "BL" denotes "below limit"
4. "N.A." denotes "Not Applicable"
5. "Inconclusive" denotes result is intermediate between "OL" and "BL"
6. "A" denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 3.2 and 3.3.
7. "*" = The sample of test item was resubmitted by the customer on Feb 22, 2023.

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XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	N.A.
Polymers	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$
Composite material	$BL \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (250-3\sigma) < X$

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3.2 Test for Heavy Metals

– Lead, Cadmium, Hexavalent Chromium and Mercury Tests according to IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015 & IEC 62321-7-2:2017, Analysis was conducted by ICP-OES, UV-VIS.

Element	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [μg/cm ²]	Hexavalent Chromium [mg/kg]
Detection Limit	5	5	5	0.10	5
Limit	100	1000	1000	0.10	1000
Sample 003	N.D.	/	/	/	/
Sample 007	/	78771Φ	/	/	/

Note:

1. All Concentrations express in “mg/kg”(milligram per kilogram), mg/kg ~ ppm.
2. “N.D.” = “Not Detected”.
3. Boiling-water-extraction:
 - Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is less than 0.10μg with 1cm² sample surface area.
 - Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than 0.13μg with 1cm² sample surface area.
 - Inconclusive = the detected concentration in boiling-water-extraction solution is greater than 0.10μg and less than 0.13μg with 1cm² sample surface area.
4. Positive = result be regarded as not comply with RoHS requirement
Negative = result be regarded as comply with RoHS requirement
5. “-” = Not regulated
6. “Φ” = sample 007 is electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, The lead content which is exempted from the requirement of directive 2011/65/EU(RoHS)Annex III 7(c)- I

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3. 3 Test for Flame retardants

– Test method: According to IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5mg/kg]

Test Item		Detection Limit [mg/kg]	RoHS Requirement [mg/kg]
PBBs	Monobromobiphenyl	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	
	Tribromobiphenyl	< 5	
	Tetrabromobiphenyl	< 5	
	Pentabromobiphenyl	< 5	
	Hexabromobiphenyl	< 5	
	Heptabromobiphenyl	< 5	
	Octabromobiphenyl	< 5	
	Nonabromobiphenyl	< 5	
	Decabromobiphenyl	< 5	
	Sum of PBBs	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	
	Tribromodiphenyl Ether	< 5	
	Tetrabromodiphenyl Ether	< 5	
	Pentabromodiphenyl Ether	< 5	
	Hexabromodiphenyl Ether	< 5	
	Heptabromodiphenyl Ether	< 5	
	Octabromodiphenyl Ether	< 5	
	Nonabromodiphenyl Ether	< 5	
	Decabromodiphenyl Ether	< 5	
	Sum of PBDEs	< 5	

Note:

1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm.
2. "<" denotes less than

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3.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863

Test method: According to IEC 62321-8:2017; Analysis was conducted by GC-MS&LC-MS#.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 002	N.D.	N.D.	520	N.D.
Sample 003	N.D.	N.D.	800	N.D.
Sample 005	N.D.	N.D.	N.D.	N.D.
Sample 006	N.D.	N.D.	N.D.	N.D.
Sample 007	N.D.	N.D.	N.D.	N.D.
Sample 008	N.D.	N.D.	N.D.	N.D.
Sample 010	N.D.	N.D.	N.D.	N.D.
Sample 011	N.D.	N.D.	N.D.	N.D.
Sample 012	N.D.	N.D.	N.D.	N.D.

Note:

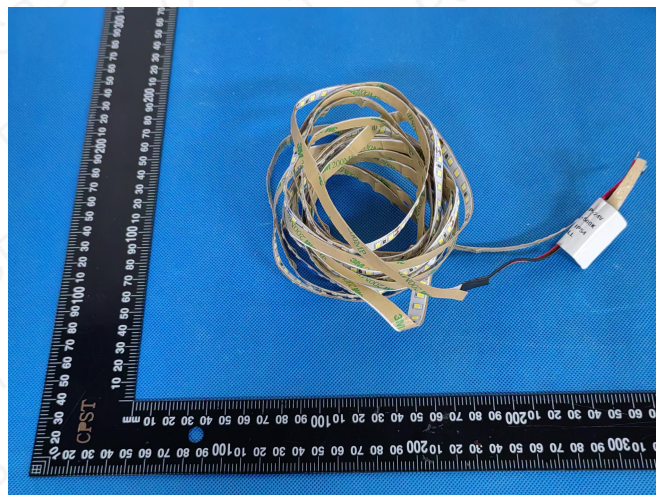
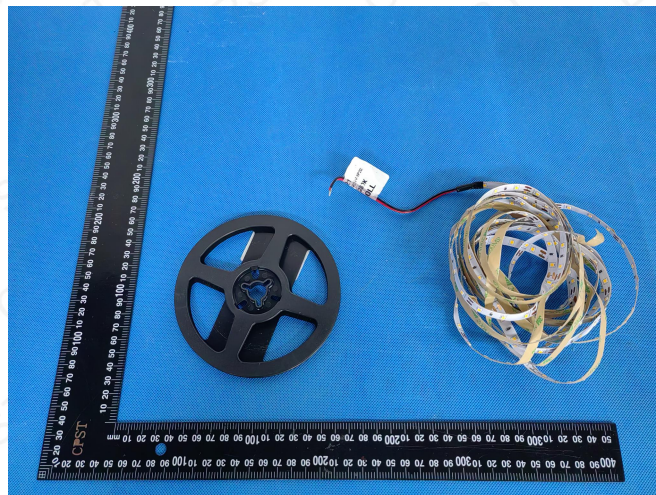
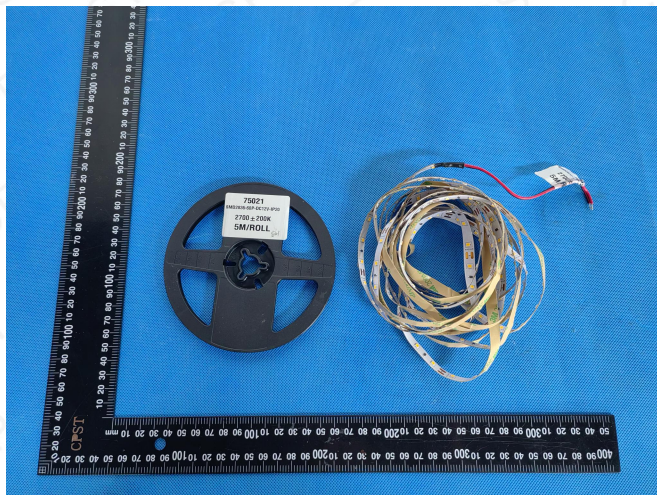
1. All Concentrations express in "mg/kg"(milligram per kilogram), mg/kg ~ ppm.
2. "N.D." = "Not Detected".
3. "##" LC-MS is not authorized by CNAS.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

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Photo of the Submitted Sample



*** End of Report ***

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Eurones (Dongguan) Consumer Products Testing Service Co., Ltd. Tel: (86-769) 38937858 Fax: (86-769) 38937859 Http://www.cpslab.com

Room 1092, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Postcode: 523945

E-mail: service@cpslab.com