

Report No.: DGC210824074ZE

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Applicant : Shenzhen Chengjie Lighting Co., Ltd.

Address : 2B-2-1101, Xingfu Fengjing, Meilong Road, Longhua District, Shenzhen

The following sample(s) was/were submitted and identified on behalf of the client as:

Product Name : LED Strip Light

Model : CJ-5V-5050-30L-RGB

Manufacturer : Shenzhen Chengjie Lighting Co., Ltd.

Address : 2B-2-1101, Xingfu Fengjing, Meilong Road, Longhua District, Shenzhen

Date of Sample Received : Aug. 24, 2021

Test period : Aug. 24, 2021- Sept. 01, 2021

Test requested

In accordance with RoHS Directive 2011/65/EU and amendment 2015/863/EU, to determine Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs, Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.

Conclusion

Pass

Test method : Please refer to next page.

Test result : Please refer to next page.

Tested by:

Zack Dong

Zack Dong

Reviewed by:

Grace Lin

Grace Liu

Approved by:

Caby Yang

Caby Yang
(Signed for and on behalf)

Date:

Sept. 01, 2021



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Dongguan NTEK Testing Technology Co., Ltd.Address: Building 3, Meisaidaxin Park, Keji 8th Road, Songshan Lake High-Tech Industrial Development Zone,
Dongguan, Guangdong, China

Tel: (+86-769) 23301666

Fax: (+86-769) 23301600

Email: service@ntek.org.cn

http://www.dgntek.org.cn

Test method:**1. For the Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs:**

With reference to IEC 62321 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products, XRF scanning first test, then using chemical test method to confirm.

Testing Item		Test Method	Measuring Instrument	MDL
Screening test		IEC 62321-3-1: 2013 scanning	XRF	--
Wet Chemical test	Lead (Pb)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Mercury (Hg)	IEC 62321-4: 2013+AMD1:2017	ICP-OES	2mg/kg
	Chromium (Cr (VI))▼	IEC 62321-7-2:2017	UV-Vis	10mg/kg
		IEC 62321-7-1: 2015		0.10µg/cm ²
	PBBs, PBDEs	IEC 62321-6: 2015	GC-MS	5 mg/kg

2. For the DEHP, DBP, BBP and DIBP:

Testing Item	Pretreatment Method	Measuring Instrument	MDL
Di (2-ethyl hexyl)-phthalate (DEHP)	IEC 62321-8: 2017	GC-MS	30mg/kg
Butylbenzyl phthalate (BBP)			30mg/kg
Dibutyl phthalate (DBP)			30mg/kg
Diisobutyl phthalate (DIBP)			30mg/kg

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1. Description of the test subject:

Sample No.	Location	Sample Description
1	LED Strip Light	Beige plastic frame
2	LED Strip Light	Transparent soft rubber strip
3	LED Strip Light	White SMD LED
4	LED Strip Light	SMD resistor
5	LED Strip Light	Black PCB light board
6	LED Strip Light	Black PCB light board solder
7	LED Strip Light	Blue film
8	LED Strip Light	Transparent double-sided tape
9	LED Strip Light	White double-sided tape

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2. Test results (Unit: mg/kg):**2.1 Test results of Cr (VI), Cd, Pb, Hg, PBBs, PBDEs:**

No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (VI))	Br (PBBs, PBDEs)	
1	Screening	BL	BL	BL	BL	BL	Comply
2	Screening	BL	BL	BL	BL	BL	Comply
3	Screening	BL	BL	BL	BL	BL	Comply
4	Screening	BL	BL	BL	BL	BL	Comply
5	Screening	BL	BL	BL	BL	BL	Comply
6	Screening	BL	BL	BL	BL	N.A.	Comply
7	Screening	BL	BL	BL	BL	BL	Comply
8	Screening	BL	BL	BL	BL	BL	Comply
9	Screening	BL	BL	BL	BL	BL	Comply

2.2 The test results of DEHP, DBP, BBP, DIBP:

Group No.	Part No.	Test Method	Phthalates				Conclusion
			DEHP	DBP	BBP	DIBP	
1	2+7+8+9	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
2	1+3+5	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply

Remark:

- (1) While the test results were less than the one-fourth limits indicates the presence of Phthalates on the four tested areas and result were all be regarded as no conflict with the requirement;
- (2) While the test results were less than the one-third limits indicates the presence of Phthalates on the three tested areas and result were all be regarded as no conflict with the requirement.

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Note:

- (1) (a) It is the result on total Br while test PBBs, PBDEs by XRF, It is the result on total Cr while test Cr (VI) by XRF.
- (b) Results are obtained by XRF for primary screening and further chemical testing by ICP-OES (for Pb, Cd and Hg), UV-Vis (for Cr (VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013. (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (70 + 3\sigma) \leq OL$	$LOD < X < (150 + 3\sigma) \leq OL$
Pb	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Hg	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cr	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Br	$BL \leq (300 - 3\sigma) < X$	--	$BL \leq (250 - 3\sigma) < X$

(c) The XRF screening test for RoHS elements –The reading may be different to the actual content in the sample be of non-uniformity composition.

(d) OL=Over Limit, BL=Below Limit, IN=Inconclusive, LOD= Limit of Detection;

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(2) mg/kg=ppm=0.0001%, N.D.=Not detected(<MDL), MDL=Method Detection Limit,
“---”=Not conducted, “--”=Not regulated, “N.A.”=Not applicable.

(3)“▼” =Metal sample

- a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$.
The sample coating is considered to contain Cr (VI) ;
- b. The sample is negative for Cr (VI) if Cr (VI) concentration is less than 0.10 $\mu\text{g}/\text{cm}^2$.
The coating is considered a non-Cr (VI) based coating ;
- c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive
- 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.

(4) RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Chromium(VI) (Cr (VI))	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)
Di (2-ethyl hexyl)-phthalate (DEHP)	0.1% (1000 ppm)
Butylbenzyl phthalate (BBP)	0.1% (1000 ppm)
Dibutyl phthalate (DBP)	0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% (1000 ppm)

The above limits are reference with RoHS Directive 2011/65/EU and amendment 2015/863/EU.

(5) The Client specified material test.

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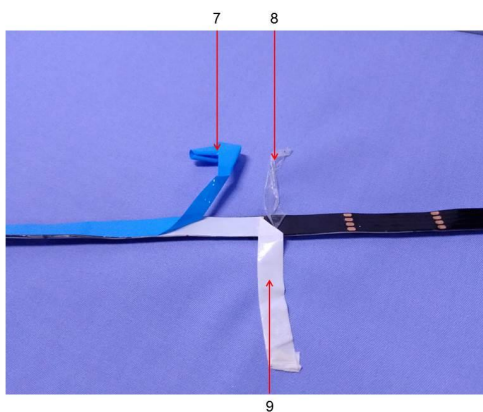
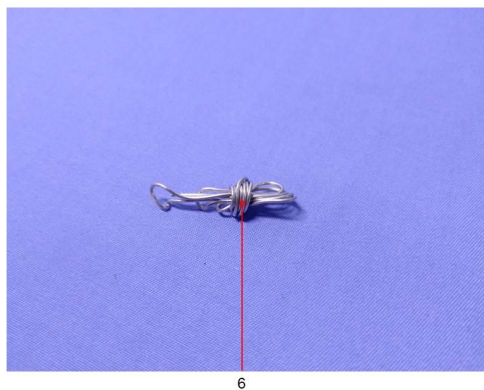
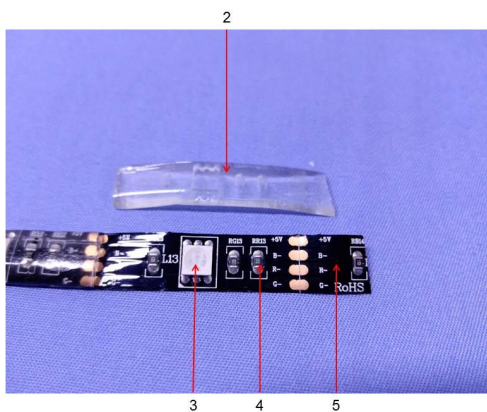
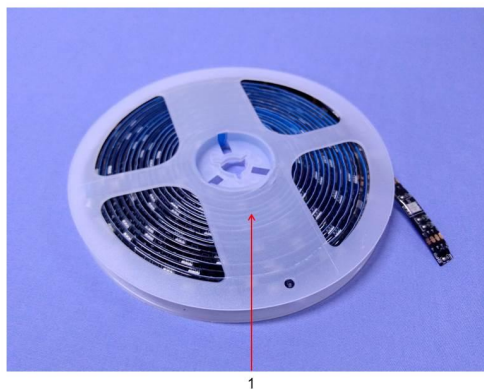
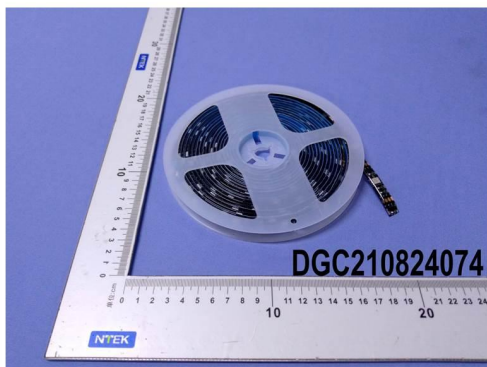
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Photographs of Sample:



End of Report

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