

Verification Report No. NGBEC2000966103 A02 Date: 24 Apr 2020 Page 1 of 31

CIXI LEONLUX TECHNOLOGY CO., LTD

BEISANHUAN WEST ROAD, ZONGHAN STREET, 315301, CIXI, NINGBO, ZHEJIANG, PEOPLE'S REPUBLIC OF CHINA

# THIS REPORT IS TO SUPERSEDE VERIFICATION REPORT NO. NGBEC2000966102 A01 DATE:2020/04/24

Sample Name : LED flood light

SGS Job No.: NP20-000843 - NB

Tested Basic Model No.: 98A02

Client Ref. Information : SEE ATTACHMENT

Date of Sample Received: 26 Mar 2020

Verification Period: 26 Mar 2020 - 24 Apr 2020

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method : Please refer to next page(s).

Verification Result : Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl

phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Iris Xiao

Approved Signatory



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Verification Method:

- 1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
- c. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
- d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using
- e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 3. With reference to IEC 62321-8:2017 determination of phthalates by GC-MS.



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	98A02-Black plastic shell	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
2	98A02-Silvery metal	Pb	BL			Comply	
	screw	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
3	98A02-White plastic	Pb	BL			Comply	
	piece	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
4	98A02-Silvery metal	Pb	BL			Comply	
	screw	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
5	98A02-Green rubber	Pb	BL			Comply	
	shell	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
6	98A02-Transparent	Pb	BL			Comply	
	plastic shell	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
7	98A02-Black IC body	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
8	98A02-White PCB body	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
9	98A02-Silvery metal	Pb	BL			Comply	
	soldering tin	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
10	98A02-Black diode body	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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11	98A02-Black rectifier	Pb	BL			Comply	
	bridge body	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
12	98A02-Semitransparent	Pb	BL			Comply	
	rubber ring	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
13	98A02-Silvery metal	Pb	BL			Comply	
	spring	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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		BBP					
		DEHP					
		DIBP					
14	98A02-Black plastic shell	Pb	BL			Comply	
	'	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
15	98A02-Black rubber mat	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
16	98A02-Silvery metal	Pb	BL			Comply	
	spring	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
17 -C	98A02-Red plastic	Pb	BL			Comply	
	bracket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
18	98A02-Golden metal	Pb	OL		26108▲	Comply	
	lump	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	 Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		 		
		DEHP		 		
		DIBP		 		
19	98A02-Silvery metal	Pb	BL	 	Comply	
	piece	Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
20	98A02-Silvery metal	Pb	BL	 	Comply	
	piece	Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	IN	 ND	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	98A02-Golden metal	Pb	BL			Comply	
	piece	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
22	98A02-Silvery plastic	Pb	BL			Comply	
	label	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
23	98A02-Transparent	Pb	BL			Comply	
	rubber sheath	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
24	98A02-Silvery metal pin	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
25 -C	98A02-Blue plastic jacket	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
26	98A02-Brown plastic	Pb	BL			Comply	
	jacket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
27	98A02-Yellow/green	Pb	BL			Comply	
	plastic jacket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
28	98A02-Blue plastic jacket	Pb	BL			Comply	
-		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
29	98A02-Brown plastic	Pb	BL			Comply	
	jacket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
30	98A02-Transparent	Pb	BL			Comply	
	plastic bracket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
31	98A02-Black plastic lump	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
32	98A02-Semitransparent	Pb	BL			Comply	
	rubber ring	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
33	98A02-Semitransparent	Pb	BL			Comply	
	solid adhesive	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
34	98A02-Black rubber	Pb	BL			Comply	
	piece	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
35	98A02-Silvery metal	Pb	BL			Comply	
	piece	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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36	98A02-Transparent	Pb	BL			Comply	
	plastic shell	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
37	98A02-Black metal spring	Pb	OL		183	Comply	
	Joseph Jacob Metal Spring	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
38	98A02-White plastic lump	Pb	BL			Comply	
	p.s. s.	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
39	98A02-Silvery metal pin	Pb	BL			Comply	
	, '	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
40	98A02-Black plastic	Pb	BL			Comply	
	sheath	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	98A02-Blue plastic jacket	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
42	98A02-Brown plastic	Pb	BL			Comply	
	jacket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
43	98A02-Yellow/green	Pb	BL			Comply	
	plastic jacket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
44	98A02-Silvery metal	Pb	BL			Comply	
	piece	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
45	98A02-Silvery metal pin	Pb	OL		29309▲	Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
46	98A02-Black plastic	Pb	BL			Comply	
	bracket	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
47	98A02-Black rubber shell	Pb	BL			Comply	
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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#### Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
  - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, 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 IEC62321-3-1:2013 (unit: mg/kg).

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

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Compound	Polymer
DBP	BL ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 600< X

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.
  - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100



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The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg, MDL of Cr(VI) for metal sample is 0.10µg/cm<sup>2</sup>.

#### (c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
- c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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.

IEC 62321 series is equivalent to EN 62321 series <a href="http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP">http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP</a> ORG ID,FSP LANG ID:1258637, 25>



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- (d) ▲=According to the declaration from the client, Lead (Pb) in No.18 and No.45 are exempted by EU RoHS directive 2011/65/EU based on JANNEX III 6(c)l: Copper alloy containing up to 4 % lead by weight.
- (4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hq/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) According to the declaration from applicant, the materials of Model "98A02" are the same as those in Model mentioned in Client Ref. Information and its results for support the results of Model mentioned in Client Ref. Information. The applicant will take the responsibility of all discrepancy and risk.



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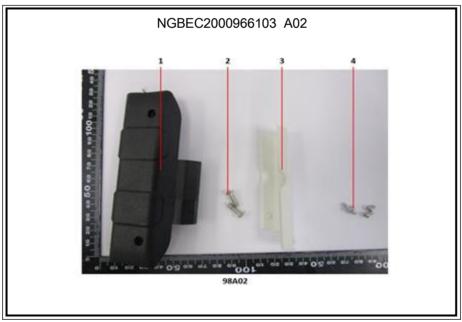
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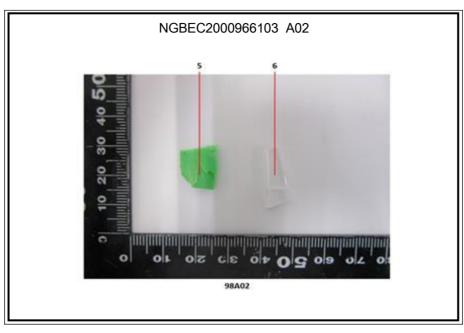
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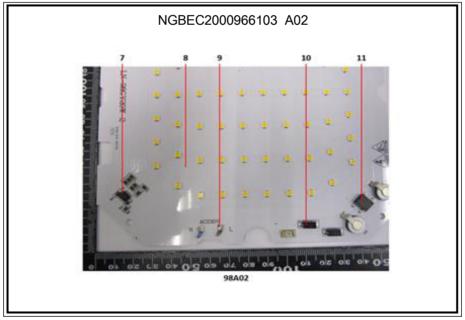


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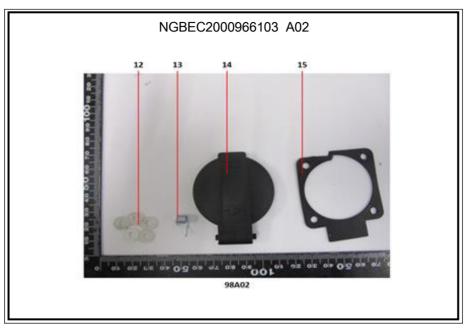
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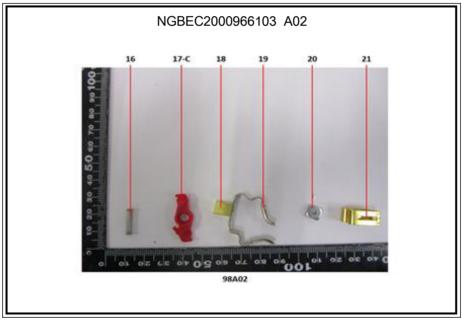


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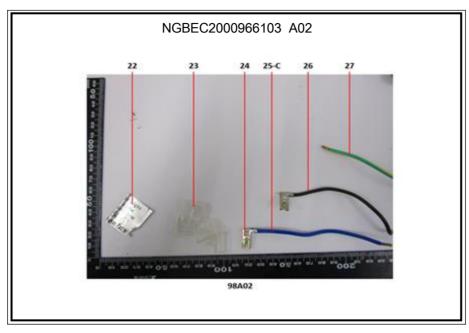
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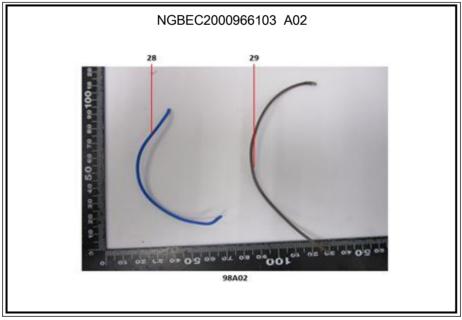
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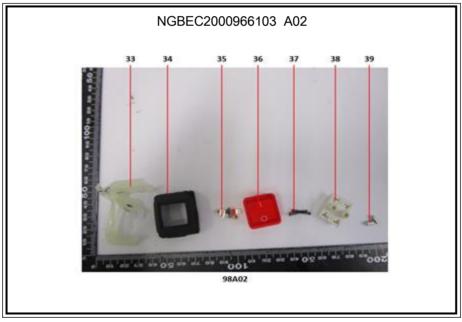


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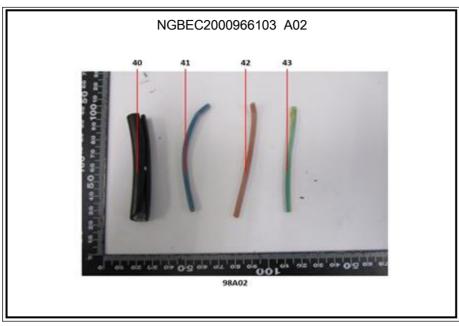
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