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CENTRE TESTING INTERNATIONAL



Company Name

Suzhou Kinglight Optoelectronics Co.,Ltd

shown on Report Address

East side of Guotai North Road, Yangshe Town, Zhang Jiagang city, Suzhou, P.R. China

Product Name

LED PANEL LIGHT

Product Part No.

PL-xy-18S, PL-xy-24S, PL-xy-26S, PL-xy-30S, PL-xy-36S, PL-xy-40S, PL-xy-50S, PL-xy-60S, PL-xy-72S, PL-xy-26D, PL-xy-30D, PL-xy-36D, PL-xy-40D, PL-xy-50D Remark: 'x' denotes the dimensions code of the panel light; 'y' can be blank and '-BL', when 'y' is 'blank', 'x' can be: 3030,3060,6060,6161,6262,3012,3013,6012,6013; when 'y' is '-BL', 'x' can be: 3030,3060,6060,6161,6262,30120,30130,60120,60130 For example: PL-6060-40S, PL-6060-BL-40S and see the appendix

Conclusion

 Tested Sample
 According to standard/directive
 Result

 Submitted Sample
 RoHS Directive 2011/65/EU with amendment (EU) 2015/863
 PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

Approved by

Guoqing Dai

Reviewed by

Wenjun Wang

Date

Aug. 19, 2022

Wenjun Wang Technical Director

No. R131021299

ente Testing International Group Co.,Ltd. Shunde Branch

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Sample Received Date Jun. 25, 2022/ Jul. 7, 2022
Testing Period Jun. 25, 2022 to Jul. 12, 2022

Test Requested With reference to RoHS Directive 2011/65/EU with amendment (EU) 2015/863,to

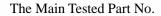
conduct verification test for Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) and Phthalates (Dibutyl phthalate(DBP), Benzylbutyl phthalate (BBP), Di-2-ethylhexyl phthalate(DEHP), Diisobutyl phthalate(DIBP))in the sub-

mitted samples.

Photo(s) of the Product(s)

LED PANEL LIGHT

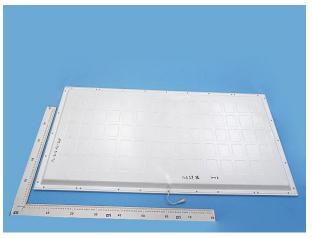






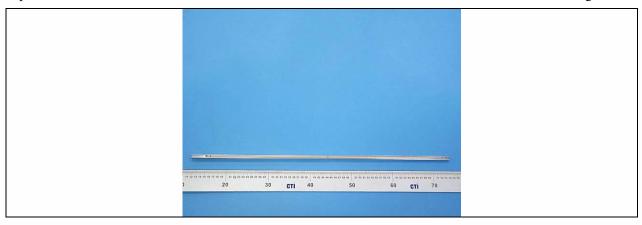
The Main Tested Part No.







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Test Method

A. Screening limits for regulated elements according to IEC 62321-3-1:2013 (Unit: mg/kg)

Element	Polymers	Metals	Composite material		
DL	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ)	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ)	BL \leq (500-3 σ) $<$ X $<$ (1500+3 σ)		
Pb	≪OL	≪OL	≤OL		
Cd	BL \leq (70-3 σ) $<$ X $<$ (130+3 σ)	BL \leq (70-3 σ)< X <(130+3 σ)	LOD <x<(150+3σ) td="" ≤ol<=""></x<(150+3σ)>		
Cu	≤OL	≤OL	LOD <a<(130+30) <="" ol<="" td=""></a<(130+30)>		
Ша	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ)	BL \leq (700-3 σ) $<$ X $<$ (1300+3 σ)	BL \leq (500-3 σ) $<$ X $<$ (1500+3 σ)		
Hg	≪OL	≪OL	≤OL		
Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	$BL \leq (500-3\sigma) < X$		
Br	BL≤(300-3σ)< X	N/A	BL \leq (250-3 σ) $<$ X		

B. Screening limits for Phthalates

Test Item(s)	Screening limits(Unit: mg/kg)
Dibutyl phthalate(DBP)	BL≤600 <x< td=""></x<>
Benzylbutyl phthalate(BBP)	BL≤600 <x< td=""></x<>
Di-2-ethylhexyl phthalate(DEHP)	BL≤600 <x< td=""></x<>
Diisobutyl phthalate(DIBP)	BL≤600 <x< td=""></x<>



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C. Chemical Test

Tested Item(s)	Test Method	Measured Equipment(s)	MDL	Limit	
Load (Dh.)	IEC 62321-5:2013	ICP-OES	10 mg/kg	1000 ma/lra	
Lead (Pb)	Refer to IEC 62321-5:2013	ICP-OES	10 mg/kg	1000 mg/kg	
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10 mg/kg	100 mg/kg	
Cadmium (Cd)	Refer to IEC 62321-5:2013	ICP-OES	10 mg/kg	100 mg/kg	
	IEC 62321-4:2013+AMD1:2017 CSV		10 mg/kg		
Mercury (Hg)	Refer to	ICP-OES	10 mg/kg	1000 mg/kg	
	IEC 62321-4:2013+AMD1:2017 CSV		10 mg/kg		
	IEC 62321-7-2:2017		20 mg/kg		
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis	0.10 μg/cm ²	1000 mg/kg	
	IEC 62321-7-1:2015		(LOQ)		
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg	
Polybrominated Diphenyl	IEC 62321-6:2015	GC-MS	100 mg/kg	1000 mg/kg	
Ethers (PBDEs)			8 8	1000 mg/kg	
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg	1000 mg/kg for each	

Remark:

- BL = Under the screening limit
- OL = Above the screening limit
- X = The range of needing to do further testing
- 3σ = The reproducibility of analytical instruments
- N/A= Not applicable
- LOD= Detection limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²



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Test Result(s)

Sample No.	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		White label	Cr(Cr(VI))	BL	/	/		
1.1	/	with black	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		printing	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.2	1.4	White coating	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.3	1.5	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.6	/	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	OL	/	N.D.▼		
			Cd	BL	/	/		
			Hg	BL	/	/		
	1.7 /		Cr(Cr(VI))	BL	/	/		
1.7		Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		Jun. 25, 2022
			Cr(Cr(VI))	BL	/	/		
1.8	/	White pearl	Br(PBBs&PBDEs)	BL	/	/	PASS	
		cotton	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.9	/	White plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		White/Dlasl-	Cr(Cr(VI))	BL	/	/		
1.10	1.10 /	White/Black plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		prastic	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
	1.11 /		Cr(Cr(VI))	BL	/	/		
1.11		Transparent	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		plastic	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		D1 1 11	Cr(Cr(VI))	BL	/	/		
1.12	/	Black adhe-	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		sive tape	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		C:11-4	Cr(Cr(VI))	IN	/	N.D. [▼]		
1.13	/	Silvery plat-	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
		ing	DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D. [▼]		
1.14	1.14 /	Metal base	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
	1.15		Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.15		Transparent	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		adhesive tape	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D. [▼]		Jun. 25, 2022
1.16	/	Silvery plat- ing	Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
1.17	/	Metal base	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.18	1.19	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.20	/	White plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.21	/	Black rubber	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	IN	N.D.		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		Transparent	Cr(Cr(VI))	BL	/	/		
1.22	/	double sides	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		adhesive	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
1.23	1.24	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/	1	
			Hg	BL	/	/	1	
			Cr(Cr(VI))	BL	/	/	1	
2.1	/	PCB(Tested	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		as a whole)	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	IN	/	N.D.		
			Cd	BL	/	/		
			Hg	BL	/	/		
		Yellow	Cr(Cr(VI))	BL	/	/		
2.2	/	body(Tested	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		as a whole)	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/	_	
			Cd	BL	/	/		
			Hg	BL	/	/		
		White	Cr(Cr(VI))	BL	/	/	_	
2.3	/	body(Tested	Br(PBBs&PBDEs)	IN	/	N.D.	PASS	Jun. 25, 2022
		as a whole)	DBP	N/A	BL	/	_	
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/	_	
			DIBP	N/A	BL	/		
			Pb	BL	/	/	_	
			Cd	BL	/	/		
			Hg	BL	/	/		
		Silvery metal	Cr(Cr(VI))	BL	/	/		
2.4	2.4 2.14	soldering tin	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
		solucing till	DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
	2.5 /	White plastic	Cr(Cr(VI))	BL	/	/		
2.5		tegument with	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		black printing	DBP	N/A	BL	/		·
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		Jun. 25, 2022
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.6	/	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.7	/	Red plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		tegument	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		Disals 1 d	Cr(Cr(VI))	BL	/	/		
2.8	/	Black plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		tegument	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.9	/	Cupreous	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
		metal	DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
		White plastic	Cr(Cr(VI))	BL	/	/		
2.10	/	tegument with	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		black printing	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.11	/	White plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	IN	N.D.		
			DIBP	N/A	BL	/		
			Pb	BL	/	/	-	
			Cd	BL	/	/	-	
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.12	/	White plastic	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/	-	
			DEHP	N/A	IN	N.D.		
			DIBP	N/A	BL	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	OL	/	24320#1		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.13	/	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
		_	DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	IN	/	N.D.▼		
2.15	/	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	OL	/	25540#1		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.16	/	Silvery metal	Br(PBBs&PBDEs)	N/A	/	/	PASS	Jun. 25, 2022
			DBP	N/A	/	/		
			BBP	N/A	/	/		
			DEHP	N/A	/	/		
			DIBP	N/A	/	/		
			Pb	BL	/	/		
			Cd	BL	/	/		
			Hg	BL	/	/		
			Cr(Cr(VI))	BL	/	/		
2.17	/	Black plastic	Br(PBBs&PBDEs)	IN	/	N.D.	PASS	Jun. 25, 2022
			DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date	
			Pb	BL	/	/			
			Cd	BL	/	/		Jun. 25, 2022	
			Hg	BL	/	/			
			Cr(Cr(VI))	BL	/	/			
3.1	/	Black/White	Br(PBBs&PBDEs)	BL	/	/	PASS		
		coating	DBP	N/A	BL	/			
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			
			Pb	BL	/	/			
			Cd	BL	/	/			
			Hg	BL	/	/		Jun. 25, 2022	
		PCB(Tested as a whole)	Cr(Cr(VI))	BL	/	/	PASS		
3.2	/		Br(PBBs&PBDEs)	IN	/	N.D.			
			DBP	N/A	BL	/			
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			
		/ Beige plastic	Pb	BL	/	/			
			Cd	BL	/	/			
			Hg	BL	/	/			
			Cr(Cr(VI))	BL	/	/			
3.3-A	/		Br(PBBs&PBDEs)	BL	/	/	PASS Jun. 25, 20 Jul. 7, 20	Jun. 25, 2022/	
			DBP	N/A	/	N.D.		Jul. 7, 2022	
			BBP	N/A	/	N.D.			
			DEHP	N/A	/	N.D.			
			DIBP	N/A	/	N.D.			
			Pb	BL	/	/			
			Cd	BL	/	/			
			Hg	BL	/	/			
			Cr(Cr(VI))	BL	/	/			
3.4	/	Transparent	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022	
		plastic	DBP	N/A	BL	/			
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			



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Sample No.	Same material No.	Sample De- scription	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date	
			Pb	BL	/	/			
			Cd	BL	/	/		Jun. 25, 2022	
			Hg	BL	/	/			
			Cr(Cr(VI))	BL	/	/			
3.5	/	White solid	Br(PBBs&PBDEs)	BL	/	/	PASS		
		glue	DBP	N/A	BL	/			
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			
			Pb	BL	/	/			
		White solid glue	Cd	BL	/	/	PASS	Jun. 25, 2022	
	/		Hg	BL	/	/			
			Cr(Cr(VI))	BL	/	/			
3.6			Br(PBBs&PBDEs)	BL	/	/			
			DBP	N/A	BL	/			
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			
			Pb	IN	/	N.D.			
			Cd	BL	/	/			
			Hg	BL	/	/			
		Yellow	Cr(Cr(VI))	BL	/	/]		
3.7	/	body(Tested	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022	
		-	as a whole)	DBP	N/A	BL	/		
			BBP	N/A	BL	/			
			DEHP	N/A	BL	/			
			DIBP	N/A	BL	/			



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Sample No.	Same material No.	Sample Description	Tested Items	XRF Screening Test	Phthalates Screening Test	Chemical Test (mg/kg)	Con- clu- sion	Sample Received/ Resubmitted Date
			Pb	OL	/	N.D.		
			Cd	BL	/	/		
			Hg	BL	/	/		
		Gray	Cr(Cr(VI))	BL	/	/		
4.1	/	body(Tested	Br(PBBs&PBDEs)	BL	/	/	PASS	Jun. 25, 2022
		as a whole)	DBP	N/A	BL	/		
			BBP	N/A	BL	/		
			DEHP	N/A	BL	/		
			DIBP	N/A	BL	/		

Remark:

- N.D. = Not Detected (<MDL or LOQ)
- MDL = Method Detection Limit
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- /=Not tested
- IN= Uncertain, Further chemical test
- N/A= Not applicable
- BL = Under the screening limit
- OL = Further chemical test will be conducted while the result is above the screening limit.
- The sample is negative for Cr(VI) The Cr(VI) concentration is below 0.10 μg/cm². The coating is considered a non-Cr(VI) based coating.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
- The sample with A in 'Sample No.' is the improved one instead of the original submitted sample.
- **According to the client's statement, the material of the sample(s) fall into exemption items 6(c) according to EU Directive 2011/65/EU: Copper alloy containing up to 4%(40000 mg/kg) lead by weight.
- According to the client's statement, the samples in the column "Same material No." are of the same as the "Sample No.".
- Information Statement: Test Model PL-6060-40S is common parts.

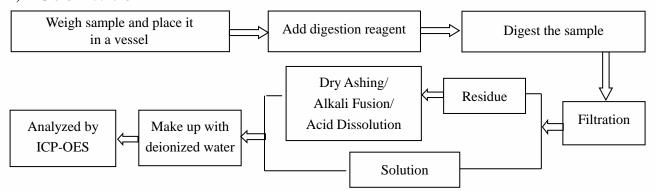


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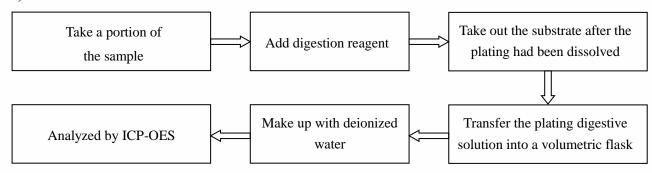
Test Process

1. Lead (Pb), Cadmium (Cd)

1) IEC 62321-5:2013

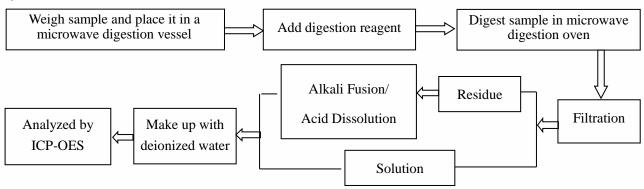


2) Refer to IEC 62321-5:2013

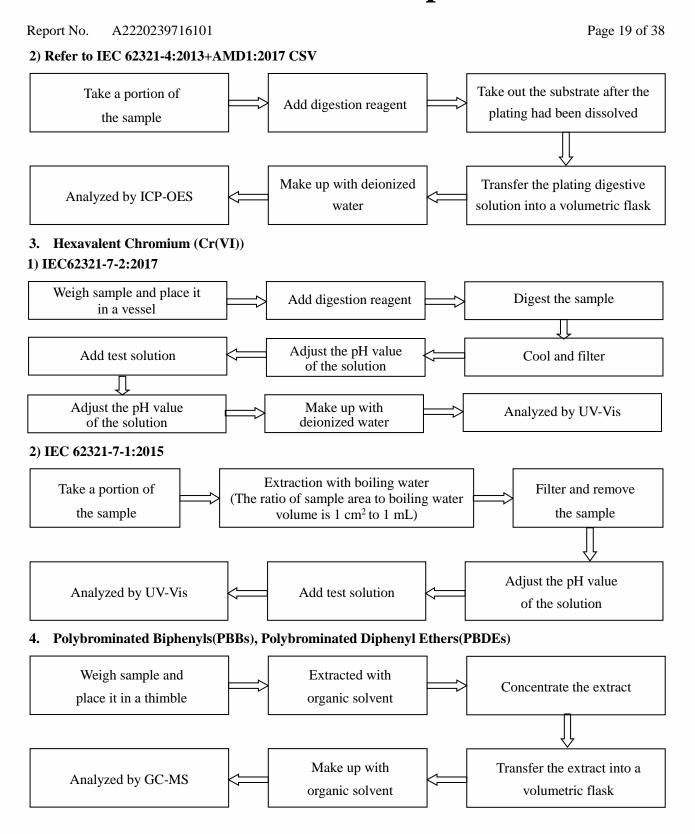


2. Mercury (Hg)

1) IEC 62321-4:2013+AMD1:2017 CSV



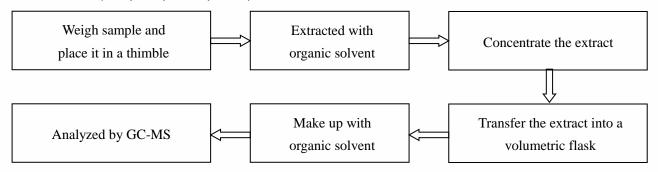




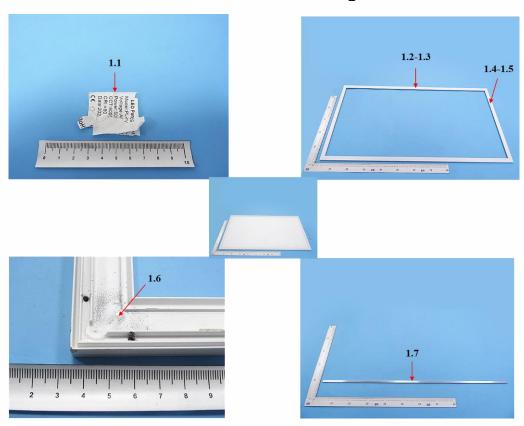


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5. Phthalates(DBP, BBP, DEHP, DIBP)

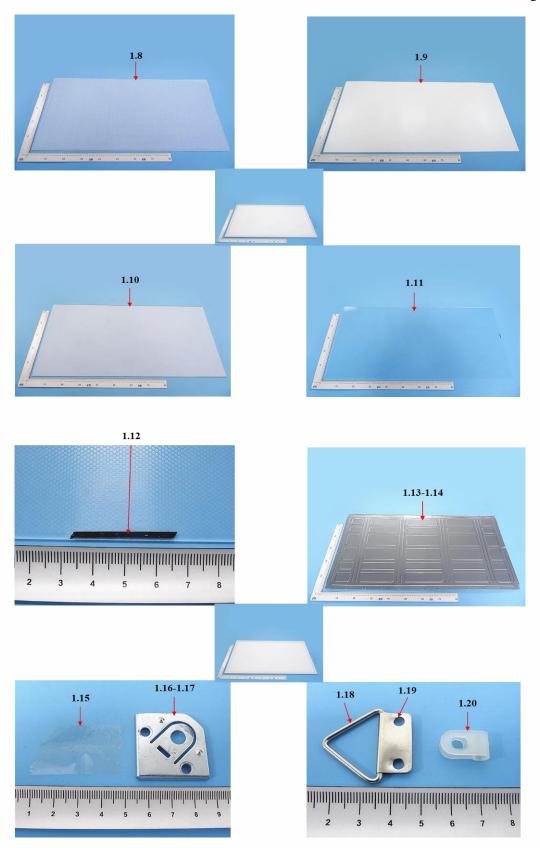


Photo(s) of the tested component(s)



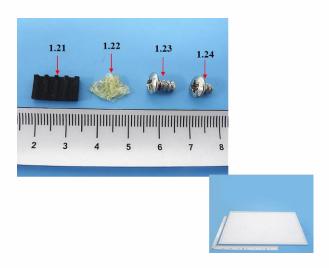


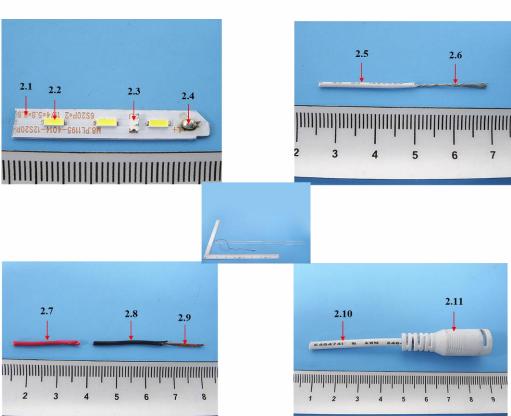
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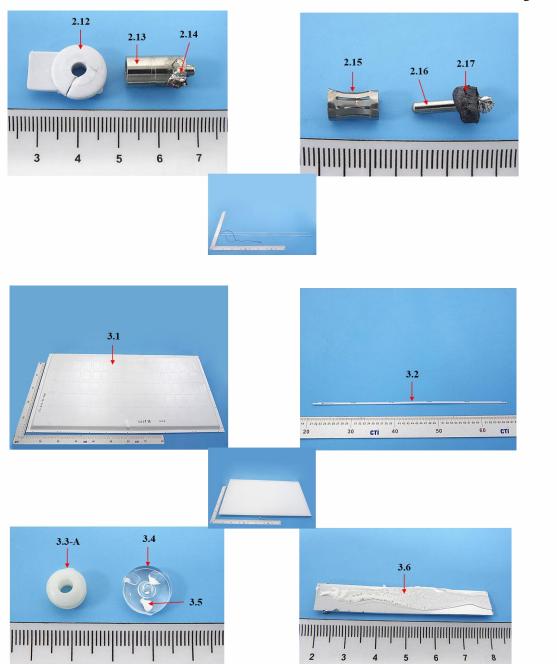
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Exempted Items of RoHS Directive

In accordance with Directive 2011/65/EU as amended, there are 45 exemption items in Annex III of 2011/65/EU altogether.

	Exemption	Scope and dates of applicability
1	Mercury in single capped (compact) fluorescent	
	lamps not exceeding (per burner):	
1(a)	For general lighting purposes < 30 W: 5 mg	Expires on 31 December 2011; 3,5 mg may
		be used per burner after 31 December 2011
		until 31 December 2012; 2,5 mg shall be used
		per burner after 31 December 2012
1(b)	For general lighting purposes ≥ 30 W and <	Expires on 31 December 2011; 3,5 mg may
	50 W: 5 mg	be used per burner after 31 December 2011
1(c)	For general lighting purposes ≥ 50 W and <	
	150 W: 5 mg	
1(d)	For general lighting purposes ≥ 150 W: 15 mg	
1(e)	For general lighting purposes with circular or	No limitation of use until 31 December 2011;
	square structural shape and tube diameter ≤	7 mg may be used per burner after 31 De-
	17 mm	cember 2011
1(f)	For special purposes: 5 mg	
1(g)	For general lighting purposes < 30 W with a life-	Expires on 31 December 2017
	time equal or above 20 000 h: 3,5 mg	
2(a)	Mercury in double-capped linear fluorescent	
	lamps for general lighting purposes not exceed-	
	ing (per lamp):	
2(a)(1)	Tri-band phosphor with normal lifetime and a	Expires on 31 December 2011; 4 mg may be
	tube diameter < 9 mm (e.g. T2): 5 mg	used per lamp after 31 December 2011
2(a)(2)	Tri-band phosphor with normal lifetime and a	Expires on 31 December 2011; 3 mg may be
	tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 5	used per lamp after 31 December 2011
	mg	
2(a)(3)	Tri-band phosphor with normal lifetime and a	Expires on 31 December 2011; 3,5 mg may
	tube diameter > 17 mm and ≤ 28 mm (e.g. T8):	be used per lamp after 31 December 2011
	5 mg	
2(a)(4)	Tri-band phosphor with normal lifetime and a	Expires on 31 December 2012; 3,5 mg may
	tube diameter > 28 mm (e.g. T12): 5 mg	be used per lamp after 31 December 2012
2(a)(5)	Tri-band phosphor with long lifetime (≥	Expires on 31 December 2011; 5 mg may be
	25 000 h): 8 mg	used per lamp after 31 December 2011
2(b)	Mercury in other fluorescent lamps not exceed-	
	ing (per lamp):	



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	Exemption	Scope and dates of applicability
2(b)(1)	Linear halophosphate lamps with tube > 28 mm	Expires on 13 April 2012
2(b)(2)	(e.g. T10 and T12): 10 mg Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):	
3(a)	Short length (≤ 500 mm)	No limitation of use until 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
3(b)	Medium length (> 500 mm and ≤ 1 500 mm)	No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011
3(c)	Long length (> 1 500 mm)	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011
4(a)	Mercury in other low pressure discharge lamps (per lamp)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:	
4(b)-I	P ≤ 155 W	No limitation of use until 31 December 2011; 30 mg may be used per burner after 31 December 2011
4(b)-II	155 W < P ≤ 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011
4(b)-III	P > 405 W	No limitation of use until 31 December 2011; 40 mg may be used per burner after 31 December 2011



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	Exemption	Scope and dates of applicability
4(c)	Mercury in other High Pressure Sodium (vapour)	
	lamps for general lighting purposes not exceed-	
	ing (per burner):	
4(c)-I	P ≤ 155 W	No limitation of use until 31 December 2011;
		25 mg may be used per burner after 31 De-
		cember 2011
4(c)-II	155 W < P ≤ 405 W	No limitation of use until 31 December 2011;
		30 mg may be used per burner after 31 De-
		cember 2011
4(c)-III	P > 405 W	No limitation of use until 31 December 2011;
		40 mg may be used per burner after 31 De-
		cember 2011
4(d)	Mercury in High Pressure Mercury (vapour)	Expires on 13 April 2015
	lamps (HPMV)	
4(e)	Mercury in metal halide lamps (MH)	
4(f)	Mercury in other discharge lamps for special	
	purposes not specifically mentioned in this An-	
	nex	
4(g)	Mercury in hand crafted luminous discharge	Expires on 31 December 2018
	tubes used for signs, decorative or architectural	
	and specialist lighting and light-artwork, where	
	the mercury content shall be limited as follows:	
	(a) 20 mg per electrode pair + 0,3 mg per tube	
	length in cm, but not more than 80 mg, for	
	outdoor applications and indoor	
	applications exposed to temperatures be-	
	low 20 ℃;	
	(b) 15 mg per electrode pair + 0,24 mg per	
	tube length in cm, but not more than 80	
	mg, for all other indoor applications.	
5(a)	Lead in glass of cathode ray tubes	
5(b)	Lead in glass of fluorescent tubes not exceed-	
	ing 0,2 % by weight	



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	Exemption	Scope and dates of applicability
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	Expires on: -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnos- tic medical devices; -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate-
6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	gory 11. Expires on 21 July 2021 for categories 1-7 and 10.
6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	Expires on: -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, -21 July 2023 for category 8 in vitro diagnos- tic medical devices, -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11.
6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Expires on 21 July 2021 for categories 1-7 and 10.
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Expires on 18 May 2021 for categories 1-7 and 10.



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	Exemption	Scope and dates of applicability
6(c)	Copper alloy containing up to 4 % lead by	Expires on:
	weight	-21 July 2021 for categories 1-7 and 10,
		-21 July 2021 for categories 8 and 9 other
		than in vitro diagnostic medical devices and
		industrial monitoring and control instruments,
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices,
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11.
7(a)	Lead in high melting temperature type solders	Applies to categories 1-7 and 10 (except ap-
	(i.e. lead-based alloys containing 85 % by weight	plications covered by point 24 of this Annex)
	or more lead)	and expires on 21 July 2021.
		For categories 8 and 9 other than in vitro di-
		agnostic medical devices and industrial mon-
		itoring and control instruments expires on 21
		July 2021.
		For category 8 in vitro diagnostic medical
		devices expires on 21 July 2023.
		For category 9 industrial monitoring and con-
		trol instruments, and for category 11 expires
		on 21 July 2024.
7(b)	Lead in solders for servers, storage and storage	
	array systems, network infrastructure equip-	
	ment for switching, signalling, transmission, and	
	network management for telecommunications	
7(c)-I	Electrical and electronic components containing	Applies to categories 1-7 and 10 (except ap-
	lead in a glass or ceramic other than dielectric	plications covered under point 34) and ex-
	ceramic in capacitors, e.g. piezoelectronic devic-	pires on 21 July 2021.
	es, or in a glass or ceramic matrix compound	For categories 8 and 9 other than in vitro di-
		agnostic medical devices and industrial mon-
		itoring and control instruments expires on 21
		July 2021.
		For category 8 in vitro diagnostic medical
		devices expires on 21 July 2023.
		For category 9 industrial monitoring and con-
		trol instruments, and for category 11 expires
		on 21 July 2024.



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	Exemption	Scope and dates of applicability
7(c)-II	Lead in dielectric ceramic in capacitors for a rat-	Does not apply to applications covered by
	ed voltage of 125 V AC or 250 V DC or higher	point 7(c)-I and 7(c)-IV of this Annex.
		Expires on:
		-21 July 2021 for categories 1-7 and 10;
		-21 July 2021 for categories 8 and 9 other
		than in vitro diagnostic medical devices and
		industrial monitoring and control instruments;
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11
7(c)-III	Lead in dielectric ceramic in capacitors for a rat-	Expires on 1 January 2013 and after that date
	ed voltage of less than 125 V AC or 250 V DC	may be used in spare parts for EEE placed on
		the market before 1 January 2013
7(c)-IV	Lead in PZT based dielectric ceramic materials	-21 July 2021 for categories 1-7 and 10;
	for capacitors which are part of integrated cir-	-21 July 2021 for categories 8 and 9 other
	cuits or discrete semiconductors	than in vitro diagnostic medical devices and
		industrial monitoring and control instruments;
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11
8(a)	Cadmium and its compounds in one shot pellet	Expires on 1 January 2012 and after that date
	type thermal cut-offs	may be used in spare parts for EEE placed on
	5/F	the market before 1 January 2012
8(b)	Cadmium and its compounds in electrical con-	Applies to categories 8, 9 and 11 and expires
	tacts	on:
		-21 July 2021 for categories 8 and 9 other
		than in vitro diagnostic medical devices and
		industrial monitoring and control instruments;
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		_
		gory 11



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	Exemption	Scope and dates of applicability
8(b)-I	Cadmium and its compounds in electrical con-	Applies to categories 1 to 7 and 10 and ex-
	tacts used in:	pires on 21 July 2021
	-circuit breakers,	
	-thermal sensing controls,	
	-thermal motor protectors (excluding hermetic	
	thermal motor protectors),	
	-AC switches rated at:	
	-6 A and more at 250 V AC and more, or	
	-12 A and more at 125 V AC and more,	
	-DC switches rated at 20 A and more at 18 V DC	
	and more, and	
	-switches for use at voltage supply frequency ≥	
	200 Hz	
9	Hexavalent chromium as an anticorrosion agent	Applies to categories 8, 9 and 11 and expires
	of the carbon steel cooling system in absorption	on:
	refrigerators up to 0,75 % by weight in the cool-	—21 July 2021 for categories 8 and 9 other
	ing solution	than in vitro diagnostic medical devices and
		industrial monitoring and control instruments,
		—21 July 2023 for category 8 in vitro diag-
		nostic medical devices,
		—21 July 2024 for category 9 industrial mon-
		itoring and control instruments, and for cate-
		gory 11.
9(a)-I	Up to 0,75 % hexavalent chromium by weight,	Applies to categories 1-7 and 10 and expires
	used as an anticorrosion agent in the cooling so-	on 5 March 2021.
	lution of carbon steel cooling systems of absorp-	
	tion refrigerators (including minibars) designed	
	to operate fully or partly with electrical heater,	
	having an average utilised power input < 75 W at	
	constant running conditions	
9(a)-II	Up to 0,75 % hexavalent chromium by weight,	Applies to categories 1-7 and 10 and expires
	used as an anticorrosion agent in the cooling so-	on 21 July 2021.
	lution of carbon steel cooling systems of absorp-	
	tion refrigerators:	
	—designed to operate fully or partly with elec-	
	trical heater, having an average utilised power	
	input ≥ 75 W at constant running conditions,	
	—designed to fully operate with non-electrical	
	heater.	
	1	



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Exemption	Scope and dates of applicability
Lead in bearing shells and bushes for refriger-	Applies to categories 8, 9 and 11; expires on:
ant-containing compressors for heating, ventila-	-21 July 2023 for category 8 in vitro diagnos-
tion, air conditioning and refrigeration (HVACR)	tic medical devices,
applications	-21 July 2024 for category 9 industrial
	monitoring and control instruments and for
	category 11,
	-21 July 2021 for other subcategories of cat-
	egories 8 and 9.
Lead in bearing shells and bushes for refrigerant-	Applies to category 1; expires on 21 July
containing hermetic scroll compressors with a	2019.
stated electrical power input equal or below 9	
kW for heating, ventilation, air conditioning and	
refrigeration (HVACR) applications	
Lead used in C-press compliant pin connector	May be used in spare parts for EEE placed on
systems C-press	the market before 24 September 2010
Lead used in other than C-press compliant pin	Expires on 1 January 2013 and after that date
connector systems	may be used in spare parts for EEE placed on
	the market before 1 January 2013
Lead as a coating material for the thermal con-	May be used in spare parts for EEE placed on
duction module C-ring	the market before 24 September 2010
Lead in white glasses used for optical applica-	Applies to all categories; expires on:
tions	-21 July 2023 for category 8 in vitro diagnos-
	tic medical devices;
	-21 July 2024 for category 9 industrial moni-
	toring and control instruments and for cate-
	gory 11;
	-21 July 2021 for all other categories and
	subcategories
Cadmium and lead in filter glasses and glasses	Applies to categories 8, 9 and 11; expires on:
used for reflectance standards	-21 July 2023 for category 8 in vitro diagnos-
	tic medical devices;
	-21 July 2024 for category 9 industrial moni-
	toring and control instruments and for cate-
	gory 11;
	-21 July 2021 for other subcategories of cat-
	egories 8 and 9
Lead in ion coloured optical filter glass types	Applies to categories 1 to 7 and 10;
	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications Lead in bearing shells and bushes for refrigerant-containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications Lead used in C-press compliant pin connector systems C-press Lead used in other than C-press compliant pin connector systems Lead as a coating material for the thermal conduction module C-ring Lead in white glasses used for optical applications Cadmium and lead in filter glasses and glasses used for reflectance standards



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	Exemption	Scope and dates of applicability
13(b)-II	Cadmium in striking optical filter glass types;	expires on 21 July 2021 for categories 1 to
	excluding applications falling under point 39 of	7 and 10
	this Annex	
13(b)-III	Cadmium and lead in glazes used for reflectance	
	standards	
14	Lead in solders consisting of more than two ele-	Expired on 1 January 2011 and after that date
	ments for the connection between the pins and	may be used in spare parts for EEE placed on
	the package of microprocessors with a lead con-	the market before 1 January 2011
	tent of more than 80 % and less than 85 % by	
	weight	
15	Lead in solders to complete a viable electrical	Applies to categories 8, 9 and 11 and expires
	connection between semiconductor die and car-	on:
	rier within integrated circuit flip chip packages	-21 July 2021 for categories 8 and 9 other
		than in vitro diagnostic medical devices and
		industrial monitoring and control instruments;
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11
15(a)	Lead in solders to complete a viable electrical	Applies to categories 1 to 7 and 10 and ex-
	connection between the semiconductor die and	pires on 21 July 2021
	carrier within integrated circuit flip chip packag-	
	es where at least one of the following criteria	
	applies:	
	-a semiconductor technology node of 90 nm or	
	larger;	
	-a single die of 300 mm ² or larger in any semi-	
	conductor technology node;	
	-stacked die packages with die of 300 mm ² or	
	larger, or silicon interposers of 300 mm ² or larger	
16	Lead in linear incandescent lamps with silicate	Expires on 1 September 2013
	coated tubes	
17	Lead halide as radiant agent in high intensity	
	discharge (HID) lamps used for professional re-	
	prography applications	



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	Exemption	Scope and dates of applicability
18(a)	Lead as activator in the fluorescent powder (1 %	Expired on 1 January 2011
	lead by weight or less) of discharge lamps when	
	used as speciality lamps for diazoprinting	
	reprography, lithography, insect traps, photo-	
	chemical and curing processes containing	
	phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb)	
18(b)	Lead as activator in the fluorescent powder (1 %	-21 July 2021 for categories 1-7 and 10;
	lead by weight or less) of discharge lamps when	-21 July 2021 for categories 8 and 9 other
	used as sun tanning lamps containing phosphors	than in vitro diagnostic medical devices and
	such as BSP (BaSi2O5:Pb)	industrial monitoring and control instruments
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11
18(b)-I	Lead as activator in the fluorescent powder (1 %	Applies to categories 5 and 8, excluding ap-
	lead by weight or less) of discharge lamps con-	plications covered by entry 34 of Annex IV,
	taining phosphors such as BSP (BaSi2O5:Pb)	and expires on 21 July 2021
	when used in medical phototherapy equipment	
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific	Expires on 1 June 2011
	compositions as main amalgam and with	
	PbSn-Hg as auxiliary amalgam in very compact	
	energy saving lamps (ESL)	
20	Lead oxide in glass used for bonding front and	Expires on 1 June 2011
	rear substrates of flat fluorescent lamps used for	
	Liquid Crystal Displays (LCDs)	
21	Lead and cadmium in printing inks for the appli-	Applies to categories 8, 9 and 11 and expires
	cation of enamels on glasses, such as borosilicate	on:
	and soda lime glasses	-21 July 2021 for categories 8 and 9 other
	-	than in vitro diagnostic medical devices and
		industrial monitoring and control instruments
		-21 July 2023 for category 8 in vitro diagnos-
		tic medical devices;
		-21 July 2024 for category 9 industrial moni-
		toring and control instruments, and for cate-
		gory 11



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	Exemption	Scope and dates of applicability	
21(a)	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021	
21(b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021	
21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Applies to categories 1 to 7 and 10 and expires on 21 July 2021	
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010	
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expires on: -21 July 2021 for categories 1-7 and 10, -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, -21 July 2023 for category 8 in vitro diagnos- tic medical devices, -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11	
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring		
26	Lead oxide in the glass envelope of black light blue lamps	Expires on 1 June 2011	
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers	Expired on 24 September 2010	
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC	-21 July 2021 for categories 1-7 and 10; -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnos- tic medical devices; -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11	



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	Exemption	Scope and dates of applicability
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	
31	Lead in soldering materials in mercury free flat fluorescent lamps (which, e.g. are used for liquid crystal displays, design or industrial lighting)	
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	-21 July 2021 for categories 1-7 and 10, -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, -21 July 2023 for category 8 in vitro diagnos- tic medical devices, -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11
33	Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power trans formers	
34	Lead in cermet-based trimmer potentiometer elements	Applies to all categories; expires on: -21 July 2021 for categories 1-7 and 10, -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, -21 July 2023 for category 8 in vitro diagnos- tic medical devices, -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11.
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	Expired on 1 July 2010
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	-21 July 2021 for categories 1-7 and 10; -21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; -21 July 2023 for category 8 in vitro diagnos- tic medical devices; -21 July 2024 for category 9 industrial moni- toring and control instruments, and for cate- gory 11



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	Exemption	Scope and dates of applicability
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
39(a)	Cadmium selenide in downshifting cadmi- um-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm ² of display screen area)	-Expires for all categories on 31 October 2019
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expires on 31 December 2013
41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2))	Expires on 31 December 2018
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: -with engine total displacement ≥ 15 litres; or -with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024

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	Exemption	Scope and dates of applicability
43	Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed: (a)30 % by weight of the rubber for (i)gasket coatings; (ii)solid-rubber gaskets; or (iii)rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine. (b)10 % by weight of the rubber for rubber-containing components not referred to in point (a). For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.	Applies to category 11 and expires on 21 July 2024.
44	Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council (*1), installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users	Applies to category 11 and expires on 21 July 2024.
45	Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use	Applies to category 11 and expires on 20 April 2026.

Statement:

- This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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*** End of Report ***



Appendix

Client Reference Information

Model(s):

Model(s):			
PL-3030-18S	PL-6012-40S	PL-3030-BL-18S	PL-60120-BL-40S
PL-3060-18S	PL-6013-40S	PL-3060-BL-18S	PL-60130-BL-40S
PL-6060-18S	PL-6012-50S	PL-6060-BL-18S	PL-60120-BL-50S
PL-6262-18S	PL-6013-50S	PL-6161-BL-18S	PL-60130-BL-50S
PL-3012-18S	PL-6012-60S	PL-6262-BL-18S	PL-60120-BL-60S
PL-6161-18S	PL-6013-60S	PL-30120-BL-18S	PL-60130-BL-60S
PL-3013-18S	PL-6012-72S	PL-30130-BL-18S	PL-60120-BL-72S
PL-3060-24S	PL-6013-72S	PL-3060-BL-24S	PL-60130-BL-72S
PL-6060-24S	PL-6060-26D	PL-6060-BL-24S	PL-6060-BL-26D
PL-6262-24S	PL-6262-26D	PL-6161-BL-24S	PL-6161-BL-26D
PL-3012-24S	PL-3012-26D	PL-6262-BL-24S	PL-6262-BL-26D
PL-6161-24S	PL-6161-26D	PL-30120-BL-24S	PL-30120-BL-26D
PL-3013-24S	PL-3013-26D	PL-30130-BL-24S	PL-30130-BL-26D
PL-6060-26S	PL-6060-30D	PL-6060-BL-26S	PL-6060-BL-30D
PL-6262-26S	PL-6262-30D	PL-6161-BL-26S	PL-6161-BL-30D
PL-3012-26S	PL-3012-30D	PL-6262-BL-26S	PL-6262-BL-30D
PL-6161-26S	PL-6161-30D	PL-30120-BL-26S	PL-60120-BL-30D
PL-3013-26S	PL-3013-30D	PL-30130-BL-26S	PL-60130-BL-30D
PL-6060-30S	PL-6012-30D	PL-6060-BL-30S	PL-30120-BL-30D
PL-6262-30S	PL-6013-30D	PL-6161-BL-30S	PL-30130-BL-30D
PL-3012-30S	PL-6060-36D	PL-6262-BL-30S	PL-6060-BL-36D
PL-6161-30S	PL-6262-36D	PL-60120-BL-30S	PL-6161-BL-36D
PL-3013-30S	PL-3012-36D	PL-60130-BL-30S	PL-6262-BL-36D
PL-6012-30S	PL-6161-36D	PL-30120-BL-30S	PL-30120-BL-36D
PL-6013-30S	PL-3013-36D	PL-30130-BL-30S	PL-30130-BL-36D
PL-6060-36S	PL-6060-40D	PL-6060-BL-36S	PL-6060-BL-40D
PL-6262-36S	PL-6262-40D	PL-6161-BL-36S	PL-6161-BL-40D
PL-3012-36S	PL-3012-40D	PL-6262-BL-36S	PL-6262-BL-40D
PL-6161-36S	PL-6161-40D	PL-30120-BL-36S	PL-60120-BL-40D
PL-3013-36S	PL-3013-40D	PL-30130-BL-36S	PL-60130-BL-40D
PL-6060-40S	PL-6012-40D	PL-6060-BL-40S	PL-30120-BL-40D
PL-6262-40S	PL-6013-40D	PL-6161-BL-40S	PL-30130-BL-40D
PL-3012-40S	PL-6012-50D	PL-6262-BL-40S	PL-60120-BL-50D
PL-6161-40S	PL-6013-50D	PL-30120-BL-40S	PL-60130-BL-50D
PL-3013-40S		PL-30130-BL-40S	
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Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A2220239716101.

