



# TEST REPORT

Test Report # 17A-001305-1-E Date of Report Issue: June 27, 2017  
Date of Sample Received: May 12, 2017 Pages: Page 1 of 8

## CLIENT INFORMATION:

Company:

Address:



## SAMPLE INFORMATION:

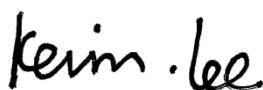
Product Name: Notebook & LED bookmark set  
Model/style No.: P773.45\*  
Main Material: TPR + ABS  
Buyer: -  
Supplier: -  
Country of Distribution: EU  
Testing Period: 05/12/2017-06/05/2017

## OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

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*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.  
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## TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)
PASS	2013/56/EU-Batteries and accumulators



**DETAILED RESULTS:****Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)**

Test method:

- (1) With reference to IEC 62321-3-1:2013,determination of Cadmium, Lead,Mercury, Chromium and Br by XRF;
- (2) With reference of IEC 62321-4:2013, IEC 62321-5:2013 to determine Cadmium, Lead and Mercury by ICP-OES;
- (3) With reference of IEC 62321:2008, IEC62321-7-1:2015 to determine Hexavalent Chromium by UV- vis
- (4) With reference of IEC 62321-6:2015 to determine PBBs and PBDEs by GC-MS.

No.	Parts Name	Test Item						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
1	White plastic	BL	BL	BL	BL	BL	BL	PASS
2	Silver metal	ND	ND	ND	Ne	-	-	PASS
3	Silver coating	BL	BL	BL	BL	BL	BL	PASS
4	black base material	BL	BL	BL	BL	ND	279	PASS
5	Screws	ND	ND	ND	Ne	-	-	PASS
6	Switch-metal shell	ND	ND	ND	Ne	-	-	PASS
7	Switch-black plastic	BL	BL	BL	BL	BL	BL	PASS
8	Switch-silver metal block	ND	ND	ND	Ne	-	-	PASS
9	Switch-epoxy plate	BL	BL	BL	BL	BL	BL	PASS
10	Switch-pins	ND	ND	ND	Ne	-	-	PASS
11	Welding and soldering in pins	63	ND	ND	Ne	-	-	PASS
12	Resistance	BL	BL	BL	BL	BL	BL	PASS
13	Resistance-pins	ND	ND	ND	Ne	-	-	PASS
14	LED lamp-lamp cap	BL	BL	BL	BL	ND	ND	PASS
15	LED lamp-pins	ND	ND	ND	Ne	-	-	PASS
16	Red wire	BL	BL	BL	BL	BL	BL	PASS
17	Copper wire	ND	ND	ND	Ne	-	-	PASS
18	Metal contact chip	310	19	ND	Ne	-	-	PASS
19	Screws	ND	ND	ND	Ne	-	-	PASS
20	Welding and soldering in screws	67	ND	ND	Ne	-	-	PASS
21	Retroreflector-coating	BL	BL	BL	BL	BL	BL	PASS
22	Retroreflector-base material	BL	BL	BL	BL	ND	403	PASS
23	Transparence film	BL	BL	BL	BL	BL	BL	PASS
25	Red plastic	BL	BL	BL	BL	BL	BL	PASS
26	Black plastic	BL	BL	BL	BL	BL	BL	PASS
27	Blue plastic	BL	BL	BL	BL	BL	BL	PASS



**DETAILED RESULTS:****2013/56/EU-Batteries and accumulators**

Components and Parts Name	Item	MDL	Result	Limit
24: Button battery	Cadmium(Cd)	2	ND	20
	Lead(Pb)	2	ND	40
	Mercury(Hg)	2	ND	5
Conclusion	-	-	PASS	-

Parameter:	Unit	Requirement	Method Detection Limit (MDL)
Lead (Pb)	mg/kg	1000	15
Cadmium (Cd)	mg/kg	100	15
Mercury (Hg)	mg/kg	1000	15
Chromium VI (Cr VI)	mg/kg	1000	15
Group PBBs	mg/kg	1000	20
Group PBDEs	mg/kg	1000	20

As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixs screening of the element is limited see chart ( Unit: mg/kg )

Elements	Polymer material	Metal material/ nonmetallic material	Inorganic	Electronic component
Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$		$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$		$LOD < X < (150+3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$		$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$		$BL \leq (500-3\sigma) < X$
Bromine (Br)	$BL \leq (300-3\sigma) < X$	/		$BL \leq (250-3\sigma) < X$





## Note:

1. Unit: mg/kg. 1mg/kg=1ppm=0.0001%
2. MDL=Method Detection Limit
3. ND=Not Detected(< MDL)
4. "-"= Not Regulated or Not Applicable
5.  $3\sigma$  = Analysis shows that the instrument reproducibility
6. BL=Below Limit; OL=Over Limit
7. Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than  $0.10\mu\text{g}/\text{cm}^2$ .  
Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than  $0.13\mu\text{g}/\text{cm}^2$ .
8. "Results of XRF" is the result on total Br and total Cr while restricted substances are PBBs/PBDEs and Cr(VI).



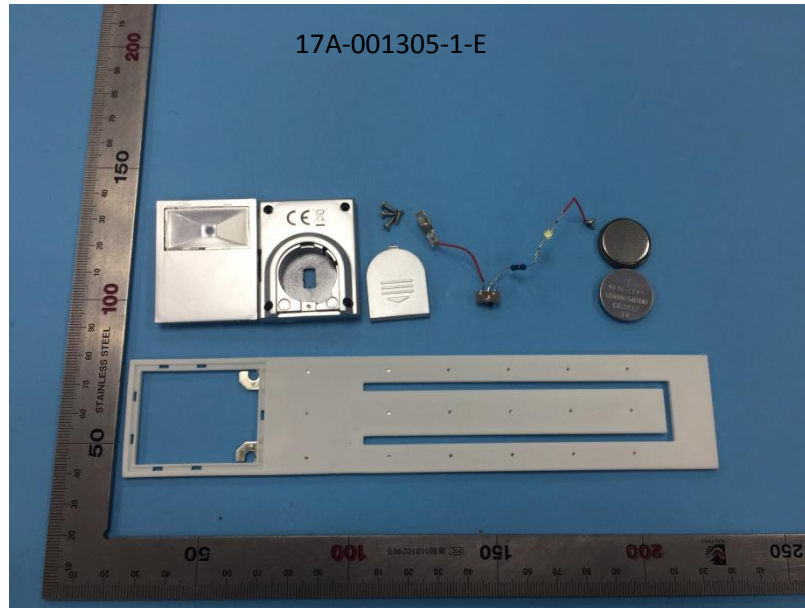


**SAMPLE PHOTO:**





**SAMPLE PHOTO:**





**PRODUCT PHOTO:**

Not be tested, just for photo



-End Report-

