GC[®]鑫宇环检测 Attestation of Global Compliance

Test Report

Report No.: AGC01978190501-001

Date: May 17, 2019

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Applicant:	
Address:	
Test site:	

Report on the submitted	sample(s) said to be:
Sample Name:	Air Mousepad with 5W wireless charging, black
Sample Model:	P308.251
Country of Origin:	CHINA
Country of Destination:	EUROPE
Sample Received Date:	May 10, 2019
Testing Period:	May 10, 2019 to May 17, 2019
Test Requested:	Please refer to following page(s).
Test Method:	Please refer to following page(s).
Test Result:	Please refer to following page(s).





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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China



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Conclusion

Pass

Test Requested:

1. As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

2.As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Pass

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
B: <u>Chemical test:</u>

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	Barrier John Con
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Results:

A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.	Seq. Tested Part(s)		Results(mg/kg)					
No.		Cd	Pb	Hg	Cr	Br		
1	Black cloth(mouse pad)	BL	BL	BL	BL	X*		
2	Gray washer(mouse pad)	BL	BL	BL	BL	BL		
3	Black plastic mat(mouse pad)	BL	BL	BL	BL	BL		
4	Paper board(mouse pad)	BL	BL	BL	BL	BL		
5	Black wire(mouse pad)	BL	BL	BL	BL	BL		
6	Gray EVA board(mouse pad)	BL	BL	BL	BL	BL		
7	Black leather(mouse pad)	BL	BL	BL	BL	BL		
8	Glue (mouse pad)	BL	BL	BL	BL	BL		
9	Black EVA foam(mouse pad)	BL	BL	BL	BL	BL		
10	Tin solder	BL	BL	BL	BL	-		
11	PCB board	BL	BL	BL	BL	BL		
12	IC body	BL	BL	BL	BL	BL		
13	Tin plating	BL	BL	BL	BL	r.C *		
14	Chip capacitor	BL	BL	BL	BL	BL		
15	Chip diode	BL	BL	BL	BL	BL		
16	Chip resistor	BL	BL	BL	BL	BL		
17	USB metal joint(USB joint)	BL	BL	BL	BL			
18	Black plastic joint(USB joint)	BL	BL	BL	BL	BL		
19	Pin(USB joint)	BL	BL	BL	BL	.C -		
20	Black plastic cover	BL	BL	BL	BL	BL		
21	Micro metal joint(Micro joint)	BL	BL	BL	BL	111-		
22	Black plastic joint(Micro joint)	BL	BL	BL	BL	BL		
23	Pin(Micro joint)	BL	BL	BL	BL	P.		
24	Chip LED	BL	BL	BL	BL	BL 🐭		

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Seq.	Trate I Dr. 4(1)	Results(mg/kg)						
No.	lested Part(s)	Cd	Pb	Hg	Cr	Br		
25	Metal film capacitor	BL	BL	BL	BL	BL		
26	Pin	BL	BL	BL	BL	~		
27	Gray ceramic sheet(Induction coil)	BL	BL	BL	BL	BL		
28	Blue transparent tape(Induction coil)	BL	BL	BL	BL	BL		
29	Wire ring wire jacket(Induction coil)	BL	BL	BL	BL	BL		
30	Enameled wire(Induction coil)	BL	BL	BL	BL			

		ALL IV		Star allon
Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

- OL= Over limited
- X= Inconclusive
- "-"= Not regulated
- *= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- ii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

1) The Test Results of PBBs & PBDEs

Item(s)	MDL	Result(s)	Limit
Polybrominated Biphenyls (PBBs)	1	54	
Monobromobiphenyl	5	N.D.	
Dibromobiphenyl	5	N.D.	The And
Tribromobiphenyl	5	N.D.	Co Manual Con SGC
Tetrabromobiphenyl	5	N.D.	GO AND
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	Total PBBs Content <1000
Heptabromobiphenyl	5	N.D.	and a C Internet
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	THE THE
Decabromodiphenyl	5	N.D.	C Frid Const Control C
Total content	I The I am	N.D.	
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	
Dibromodiphenyl ether	5	N.D.	Comparis Contra Contra
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	The second second
Hexabromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Heptabromodiphenyl ether	5	N.D.	The start of the s
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	1
Decabromodiphenyl ether	5	N.D.	Sentence of Francisconter - C
Total content	The Comment	N.D.	
Conclusion	Bernard I	Pass	0

Note: N.D. = Not Detected or less than MDL

mg/kg = parts per million

MDL = Method Detection Limit

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Unit: mg/kg

2. Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg							nit: mg/kg
Test Item(s)	Test Method/ Equipment	MDI			F Cloba Complian		
		MDL	1 🕫	2	3	4	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	0	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		/	Pass	Pass	Pass	Pass	Constant I

Result(s) Test Method/ MDL Test Item(s) Limit Equipment 5 7 8 6 Di-(2-ethylhexyl) Phthalate (DEHP) 50 N.D. N.D. N.D. 1000 N.D. Dibutyl phthalate (DBP) 50 N.D. N.D. N.D. N.D. 1000 Refer to IEC 62321-8:2017 N.D. Butylbenzyl phthalate (BBP) 50 N.D. N.D. N.D. 1000 GC-MS 50 N.D. N.D. N.D. N.D. 1000 Di-iso-butyl phthalate (DIBP) Conclusion Pass Pass Pass Pass

	the same	310	V.Cov.	- F jok	100	Ur	nt: mg/kg
Trick Harry ()	Test Method/ Equipment	MDL	Result(s)				
lest item(s)			9	11	12	14	
Di-(2-ethylhexyl) Phthalate (DEHP)		50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	an a closed Comme	G000 /	Pass	Pass	Pass	Pass	

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· 电 · · · · · · · · · · · · · · · · · ·						Ur	nit: mg/kg
Test Item(s)	Test Method/ Equipment	MDI		Res	ult(s)		Limit
		MDL	15	16	18	20	
Di-(2-ethylhexyl) Phthalate (DEHP)	C A manufactor C.	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		07	Pass	Pass	Pass	Pass	1

	THE PROVIDENCE	K Compliance	0 5	Fration of Glour	Unit: mg/kg			
Test Item(s)	Test Method/	MDI	5 0 '					
	Equipment	MDL	22	24	25	27		
Di-(2-ethylhexyl) Phthalate (DEHP)	The the summers	50	N.D.	N.D.	N.D.	N.D.	1000	
Dibutyl phthalate (DBP)	Refer to	50	N.D.	N.D.	N.D.	N.D.	1000	
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017	50	N.D.	N.D.	N.D.	N.D.	1000	
Di-iso-butyl phthalate (DIBP)	GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000	
Conclusion	a.G Residence	20	Pass	Pass	Pass	Pass	97	

			Unit: mg/kg		
Test Item(s)	Test Method/ Equipment	MDL -	Result(s)		1
			28	29	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	1000
Conclusion	The the man	the Hard	Pass	Pass	

Note: 1.MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

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Test Flow Chart

1. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



The photo of the sample





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