

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Flashbay Electronics

Building2, Jixun Industrial Park , Xinjiao , Dong'ao Village , Shatian Town, Huiyang District, Huizhou City, Guangdong Province, P.R. China

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TEST REPORT

Test Report No. : 4386415.50 Version 1

: 4386415.00 Project No.

Test Report Date : 2022-03-15

Job No. : 22-00501

Applicant Flashbay Electronics

Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian

Town, Huiyang

District , Huizhou City , Guangdong Province, P.R. China

Product Name USB Flash Drives

Model No. Shift (SHI)

Reference Model No. Annex 1 (List was provided by applicant)

Test Requested RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863

- Lead, Mercury, Cadmium, Hexavalent chromium,

- Polybrominated biphenyls (PBB),

- Polybrominated diphenyl ethers (PBDE),

- Bis(2-ethylhexyl) phthalate (DEHP),

- Butyl benzyl phthalate (BBP),

- Dibutyl phthalate (DBP),

- Diisobutyl phthalate (DIBP)

Test Method Please refer to next pages

: 2022-03-07 Sample Received

Testing Period : 2022-03-07 to 2022-03-15

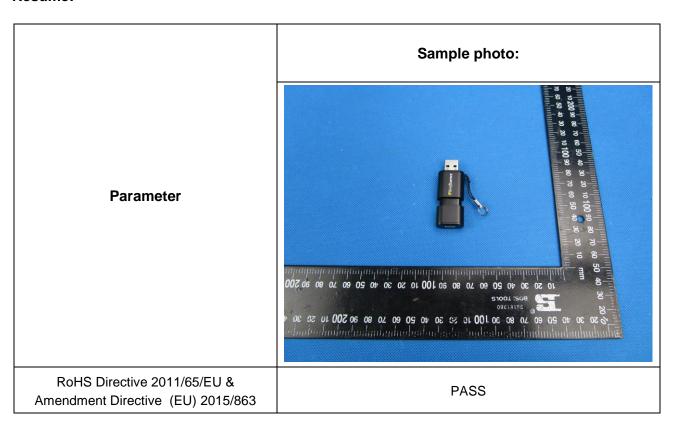
Test Results

- following pages -



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Resume:



Guangzhou, March 15, 2022 Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Chemical & Mechanical



Devin Ai Assistant Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.



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TEST RESULTS

RoHS Directive 2011/65/EU & Amendment Directive (EU) 2015/863

Test Components:

Test No.	Name of material	Photograph
1	Silvery metal	
2	Black fiber	
3	Silvery metal	
4	Black metal	4
5	Black plastic	
6	Silvery metal	Control of the contro
7	Grey plastic	



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Test No.	Name of material	Photograph	
8	Silvery metal	8 9 10	
9	Black plastic		
10	Black body		
11	Black body	13 11	
12	Black body	12 -	
13	Brown body		
14	Black body	1200061 ANTHORNAME SET 1009 ANTHORNAME SET 1009 ANTHORNAME SET 1000000000000000000000000000000000000	
15	Green PCB board		

A. Screening Test

Toot No.	Result (mg/kg)					
Test No.	Pb	Cd	Hg	Cr	Br	
1	BL	BL	BL	BL	N.A.	
2	BL	BL	BL	BL	BL	
3	BL	BL	BL	BL	N.A.	
4	BL	BL	BL	BL	N.A.	
5	BL	BL	BL	BL	BL	
6	BL	BL	BL	BL	N.A.	
7	BL	BL	BL	BL	BL	
8	BL	BL	BL	IC	N.A.	



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Test No.	Result (mg/kg)					
rest no.	Pb	Cd	Hg	Cr	Br	
9	BL	BL	BL	BL	BL	
10	BL	BL	BL	BL	BL	
11	BL	BL	BL	BL	BL	
12	BL	BL	BL	BL	BL	
13	BL	BL	BL	BL	BL	
14	BL	BL	BL	BL	BL	
15	BL	BL	BL	BL	IC	

Remark:

1. mg/kg = Milligram per kilogram

2. BL = Below Limit

3. OL = Over Limit, represents test item needs further confirmation.

4. IC = Inconclusive, represents test item needs further confirmation.

5. N.A. = Not Applicable

6. There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test item on restricted substance is Cr(VI).

Disclaimers:

This XRF screening result 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 results shown in this XRF screening 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.).

B. Chemical Test

Took Itom	Result
Test Item	(8)
Hexavalent Chromium	Negative
Cr(VI)	1.0940

Took Itom	Result (mg/kg)
Test Item	(15)
PBBs	N.D.
PBDEs	N.D.

Remark:

1. N.D. = Not Detected, less than MDL

2. mg/kg = Milligram per kilogram

3. According to IEC 62321-7-1:2015 Ed.1.0, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) in coating layer, Positive = Presence of Cr(VI) in coating layer.



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Note:

Results were 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) were recommended to be performed, if the concentration exceeded the warning value according to IEC 62321-3-1:2013 Ed. 1.0 (unit: mg/kg).

C. Phthalates Test

For plasticised material(s) in test components

Toot Itom	Result (mg/kg)	MDL	Limit
Test Item	(2)	(mg/kg)	(mg/kg)
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	50	1000
Butyl benzyl phthalate (BBP)	N.D.	50	1000
Dibutyl phthalate (DBP)	N.D.	50	1000
Diisobutyl phthalate (DIBP)	N.D.	50	1000

Took Hom	Result (mg/kg)	MDL	Limit #
Test Item	(5)/(7)/(9)	(mg/kg)	(mg/kg)
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	50	1000
Butyl benzyl phthalate (BBP)	N.D.	50	1000
Dibutyl phthalate (DBP)	N.D.	50	1000
Diisobutyl phthalate (DIBP)	N.D.	50	1000

Toot Itom	Result (mg/kg)	MDL	Limit #
Test Item	(10)/(15)	(mg/kg)	(mg/kg)
Bis(2-ethylhexyl) phthalate (DEHP)	N.D.	50	1000
Butyl benzyl phthalate (BBP)	N.D.	50	1000
Dibutyl phthalate (DBP)	N.D.	50	1000
Diisobutyl phthalate (DIBP)	N.D.	50	1000

Remark:

1. N.D. = Not Detected (below MDL)

2. MDL = Method Detection Limit

3. mg/kg = Milligram per kilogram

4. # = The limit for the test result is 1/n of the value in column (where "n" is the number of mixed samples).

Test Method

A. Screening test by XRF spectroscopy: With reference to IEC 62321-3-1: 2013 Ed. 1.0 Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.

Screening limits in mg/kg for regulated elements in various material.

Element	Polymer Material	Metallic Material	Composite Material
Cadmium (Cd)	BL≤70 <ic<130≤ol< td=""><td>BL≤70<ic<130≤ol< td=""><td>LOD<ic<150≤ol< td=""></ic<150≤ol<></td></ic<130≤ol<></td></ic<130≤ol<>	BL≤70 <ic<130≤ol< td=""><td>LOD<ic<150≤ol< td=""></ic<150≤ol<></td></ic<130≤ol<>	LOD <ic<150≤ol< td=""></ic<150≤ol<>
Lead (Pb)	BL≤700 <ic<1300≤ol< td=""><td>BL≤700<ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<></td></ic<1300≤ol<>	BL≤700 <ic<1300≤ol< td=""><td>BL≤500<ic<1500≤ol< td=""></ic<1500≤ol<></td></ic<1300≤ol<>	BL≤500 <ic<1500≤ol< td=""></ic<1500≤ol<>



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Mercury (Hg)	BL≤700 <ic<1300≤ol< th=""><th>BL≤700<ic<1300≤ol< th=""><th>BL≤500<ic<1500≤ol< th=""></ic<1500≤ol<></th></ic<1300≤ol<></th></ic<1300≤ol<>	BL≤700 <ic<1300≤ol< th=""><th>BL≤500<ic<1500≤ol< th=""></ic<1500≤ol<></th></ic<1300≤ol<>	BL≤500 <ic<1500≤ol< th=""></ic<1500≤ol<>
Bromine (Br)	BL≤300 <ic< td=""><td>N.A.</td><td>BL≤250<ic< td=""></ic<></td></ic<>	N.A.	BL≤250 <ic< td=""></ic<>
Chromium (Cr)	BL≤700 <ic< td=""><td>BL≤700<ic< td=""><td>BL≤500<ic< td=""></ic<></td></ic<></td></ic<>	BL≤700 <ic< td=""><td>BL≤500<ic< td=""></ic<></td></ic<>	BL≤500 <ic< td=""></ic<>

BL = Below Limit, OL = Over Limit, IC=Inconclusive, N.A. = Not Applicable, LOD=Limit of Detection

B. Chemical Test

Test Item	Test Method	Test Instrument	MDL	EU RoHS
				Limit (mg/kg)
Lead (Pb)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	1000
Cadmium (Cd)	IEC 62321-5: 2013 Ed. 1.0 Sec.7	ICP-OES	5mg/kg	100
Moroury (Ha)	IEC 62321-4: 2013 AMD 1:2017	ICP-OES	Ema/ka	1000
Mercury (Hg)	Ed. 1.0 Sec.7	ICF-UES	5mg/kg	1000
Hexavalent	IEC 62321-7-1:2015 Ed.1.0 Sec.7	UV-Vis	0.1µg/cm ²	1000
Chromium (Cr(VI))	IEC 62321-7-2:2017 Ed.1.0 Sec.7	UV-Vis	2mg/kg	1000
Polybrominated	IEC 62321-6; 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
Biphenyls (PBBs)	1EC 02321-0. 2013 Ed. 1.0 3ec.8	GO-IVIO	Torrig/kg	1000
Polybrominated				
Diphenyl Ethers	IEC 62321-6: 2015 Ed. 1.0 Sec.8	GC-MS	10mg/kg	1000
(PBDEs)				
Bis(2-ethylhexyl)	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
phthalate (DEHP)	120 02021 0. 2017 24. 1.0 000.0	00 1110	oomg/kg	1000
Butyl benzyl	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
phthalate (BBP)	120 02021 0. 2017 Ed. 1.0 000.0	OO WO	Johng/kg	1000
Dibutyl phthalate	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
(DBP)	120 02021-0. 2017 Ed. 1.0 060.0	GO-IVIO	Joing/kg	1000
Diisobutyl phthalate	IEC 62321-8: 2017 Ed. 1.0 Sec.8	GC-MS	50mg/kg	1000
(DIBP)	120 02021 0. 2017 Ed. 1.0 000.0	00 WO	Joing/Rg	1000

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