



中国认可
国际互认
检测
TESTING
CNAS L9334



Test Report

Report No. : SHA03-22113376-JC-01En Page(s) : 2 / 7

Test Part Description:

Serial No.	Name	Sample ID	Sample components	Sample ID
001	Air energy flexible cracking tube	2211002990-1-1	Plastic film	Red solid
002		2211002990-1-3	Exhaust pipe	Orange red solid
003		2211002990-1-5	Paper towel	White solid
004		2211002990-1-2	Air-conducting aluminum tube	Silver metal solid
005		2211002990-1-4	Electric tungsten wire	Silver metal solid

Test Method and Apparatus:

Test Items	Test method	Apparatus
Lead(Pb)	IEC 62321-5: 2013	ICP-OES
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES
Mercury(Hg)	IEC 62321-7-2:2017& IEC 62321-7-1:2015	UV-Vis/ Electric heating plate
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017	UV-Vis
Sum of PBBs and PBDEs	IEC 62321-6:2015	GC-MS
Dibutyl phthalate(DBP)	IEC 62321-8:2017	GC-MS
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS
Bis (2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017	GC-MS
Diisobutyl Phthalates (DIBP)	IEC 62321-8:2017	GC-MS

Test Results:

Test Items	Unit	MDL	Limit	Results No.001	Results No.002	Results No.003
Lead(Pb)	mg/kg	2	1000	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	2	100	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	2	1000	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	mg/kg	8	1000	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	-	1000	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.

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<u>Test Items</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Results</u> <u>No.001</u>	<u>Results</u> <u>No.002</u>	<u>Results</u> <u>No.003</u>
Hexabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	5	-	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	-	1000	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl Phthalates (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.

<u>Test Items</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Results</u> <u>No.004</u>	<u>Results</u> <u>No.005</u>
Lead(Pb)	mg/kg	2	1000	N.D.	N.D.
Cadmium(Cd)	mg/kg	2	100	N.D.	N.D.
Mercury (Hg)	mg/kg	2	1000	N.D.	N.D.
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.1	-	Negative	Negative
Sum of PBBs	mg/kg	-	1000	N.D.	N.D.
Monobromobiphenyl	mg/kg	5	-	N.D.	N.D.
Dibromobiphenyl	mg/kg	5	-	N.D.	N.D.
Tribromobiphenyl	mg/kg	5	-	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	5	-	N.D.	N.D.

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<u>Test Items</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Results</u> <u>No.004</u>	<u>Results</u> <u>No.005</u>
Pentabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Hexabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Heptabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Octabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Nonabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Decabromobiphenyl	mg/kg	5	-	N.D.	N.D.
Sum of PBDEs	mg/kg	-	1000	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	5	-	N.D.	N.D.
Dibutyl phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.
Butyl benzyl phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.
Diisobutyl Phthalates (DIBP)	mg/kg	50	1000	N.D.	N.D.

Conclusion:

Based on the performed tests on selected part of submitted sample(s), 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.

Remarks:

- (1) 1mg/kg = 1 ppm = 0.0001%
- (2) MDL =Method Detection Limit

(3) N.D.=Not Detected (< MDL)

(4) " - " =Not Regulated

(5) Negative = Without Hexavalent Chromium(Cr(VI)), the concentration of Hexavalent Chromium is less than 0.10 $\mu\text{g}/\text{cm}^2$

Positive = Containing Hexavalent Chromium(Cr(VI)), the concentration of Hexavalent Chromium is more than 0.13 $\mu\text{g}/\text{cm}^2$

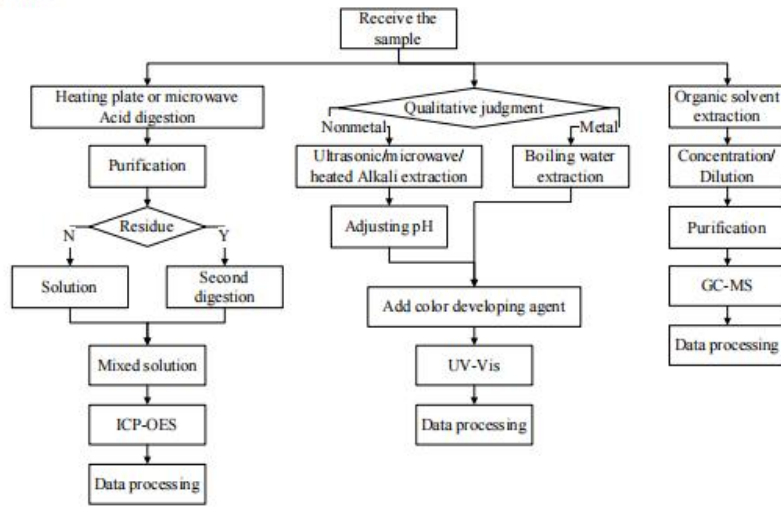
The concentration of Hexavalent Chromium is between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$, so it is impossible to determine whether Hexavalent Chromium is detected. It is inevitable that the uncertainty of the test is caused by the inconsistency of the sample.

The test results of Hexavalent Chromium of the sample can only represent the state of the sample containing Hexavalent Chromium at the time of test.

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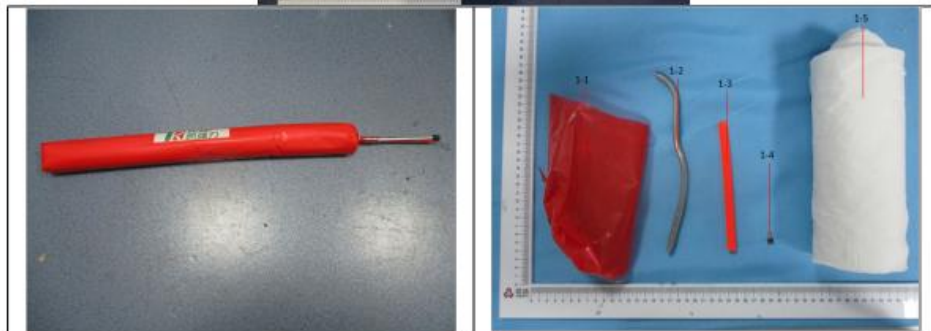
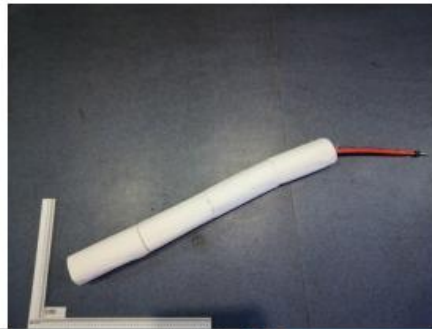
Flow Chart:



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Sample picture(s):



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End of the Report

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