

Test Report

Report No.: AGC-01692-19-09-31-001

Date: Oct.10, 2019

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Applicant: COOLER STUFF CO.,LIMITED
Address: LAIMEI ROAD, CHENGHAI DISTRICT,
SHANTOU CITY,GUANGDONG PROVINCE,CHINA
Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan
District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name: Adapter, Fan
Item No.: CS040328
Age grading: 3+
Sample Received Date: Sep.25, 2019
Testing Period: Sep.25, 2019 to Oct.09, 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).

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Requested:

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Conclusion

Pass

Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) : With reference to IEC 62321-3-1:2013 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg
Dibutyl phthalate (DBP)		GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)		GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		GC-MS	50 mg/kg

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Test Results:

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

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Soldering tin at metal connector(DC plug)	BL	BL	BL	BL	N/A
2	Soldering tin at metal plug(DC plug)	BL	BL	BL	BL	N/A
3	Tin soldering at metal sheet(DC plug)	BL	BL	BL	BL	N/A
4	Soldering tin at switch pin(Switch)	BL	BL	BL	BL	N/A
5	Soldering tin at plug of European gauge (Power plug of European gauge)	BL	BL	BL	BL	N/A
6	Soldering tin at PCB plate(Green PCB plate)	BL	BL	BL	BL	N/A
7	Soldering tin at blue PCB plate(Blue PCB plate)	BL	BL	BL	BL	N/A
8	Soldering tin on red black wire jacket(Blue PCB plate)	BL	BL	BL	BL	N/A
9	Tin plating on core of black wire jacket(Black wire jacket)	BL	BL	BL	BL	N/A
10	Tin plating on core of black wire jacket (Black wire jacket)	BL	BL	BL	BL	N/A
11	Fan tin point 1	BL	BL	BL	BL	N/A
12	Fan tin point 2	BL	BL	BL	BL	N/A
13	Enamelled wire for electric machines	BL	BL	BL	BL	BL
14	Black tin point	BL	BL	BL	BL	N/A
15	Switch tin point 1	BL	BL	BL	BL	N/A
16	Switch tin point 2	BL	BL	BL	BL	N/A
17	Adapter tin point 1	BL	BL	BL	BL	N/A
18	Adapter tin point 2	BL	BL	BL	BL	N/A
19	Black wire jacket (charging line)	BL	BL	BL	BL	BL
20	Black heat shrinkable tube	BL	BL	BL	BL	BL
21	Black wire jacket	BL	BL	BL	BL	BL
22	Red wire jacket	BL	BL	BL	BL	BL

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	N/A	$BL \leq 250 - 3\sigma < X$

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“N/A”= Not applicable

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- i 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.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU and its amendment directive (EU) 2015/863:

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
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	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)Test result of DBP, BBP, DEHP, DIBP content

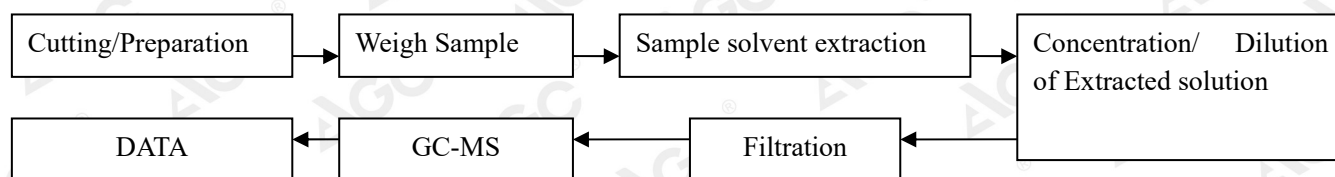
Unit: mg/kg

Limit Seq. No.	Test item	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
13		N.D.	N.D.	N.D.	N.D.	Pass
19		N.D.	N.D.	N.D.	N.D.	Pass
20		N.D.	N.D.	N.D.	N.D.	Pass
21		N.D.	N.D.	N.D.	N.D.	Pass
22		N.D.	N.D.	N.D.	N.D.	Pass

Note: 1. MDL=Method Detection Limit
2. N.D.=Not Detected(less than method detection limit)

Test Flow Chart

1.For DBP, BBP, DEHP, DIBP



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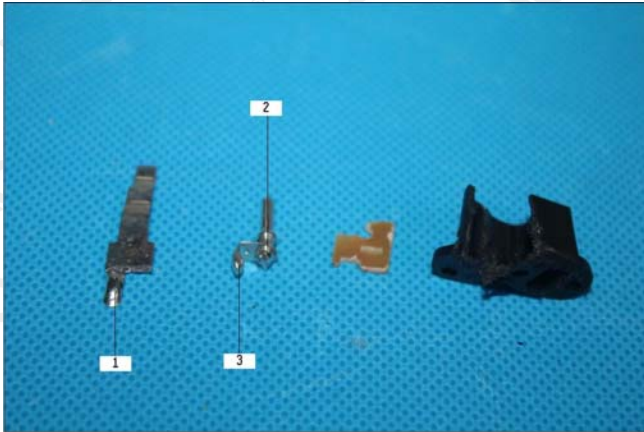
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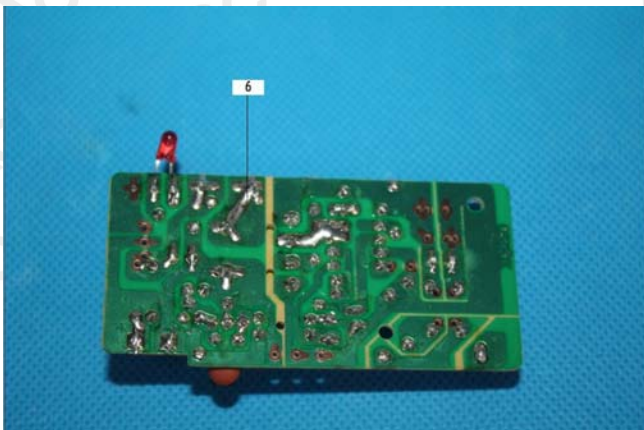
The photo of the sample



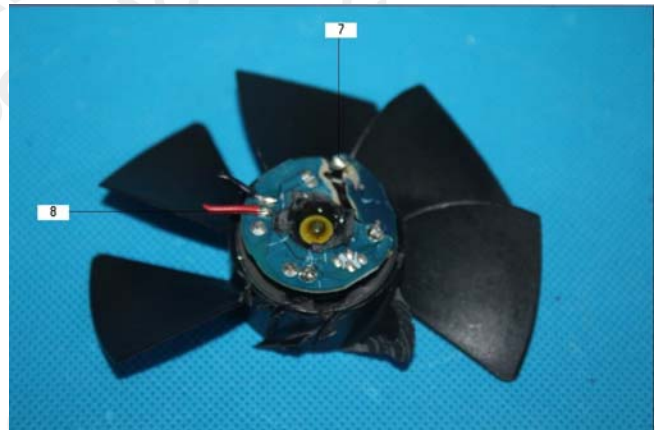
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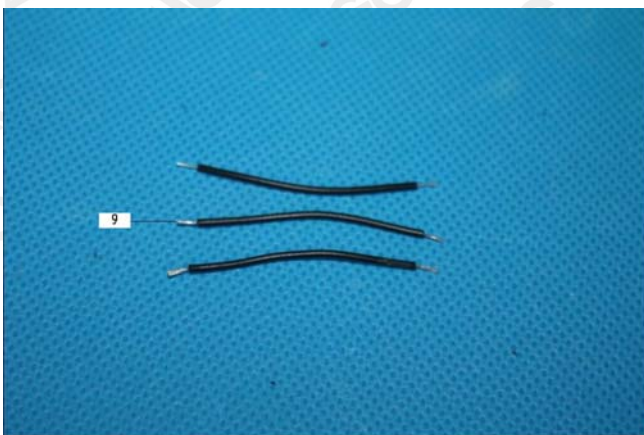
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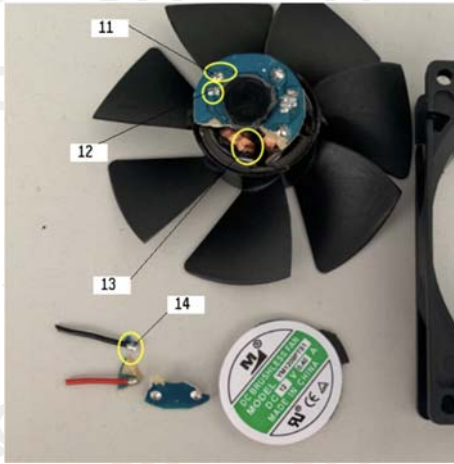


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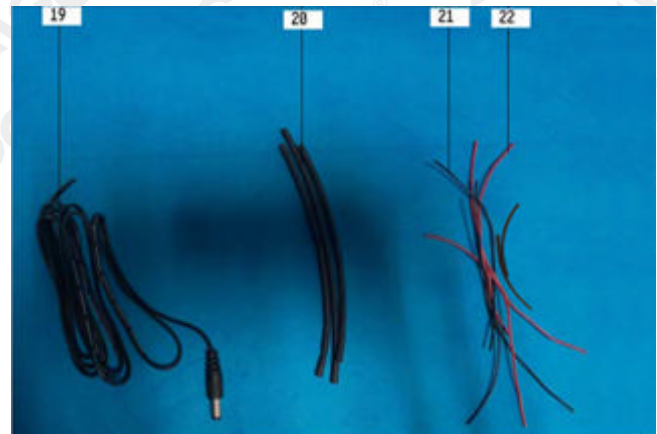
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8



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AGC authenticate the photo only on original report

*** End of Report ***

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