TEST REPORT

LAB NO. : (6621)179-1258
DATE : July 19, 2021

Applicant:
NINGBO HONGYING ELECTRICAL APPLIANCE CO., LTD
NO.4,LANE 12,LUJIAFAN ROAD, LANGXIA STREET, YUYAO,ZHEJIANG,P.R.CHINA

Date of Submission: 2021-6-28/2021-7-12
Test Period: 2021-6-28 to 2021-7-19
Sample Mode: Sample Presentation
BV EE Ref. No.: ARYS-ESH-Q21062801-A0

Sample Description:	Sample(s) received is(are) stated to be: SANDWICH MAKER		
Manufacturer:	/	Buyer:	/
Style No(s):	HY-815	PO No.:	/
Country of Origin:	/	Country of Destination:	Oversea Country

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863	PASS

REMARK
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Photo of the Submitted Sample

TEST RESULT

Compliance Test - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments (EU) 2015/863

Test Method : See Appendix.

See Analytes and their corresponding Maximum Allowable Limit in Appendix

-			Result									
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-	-	-	-	-
1	Black plastic	Housing	ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
2	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
3	Red plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
4	Green plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
5	White plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
6	Silvery metal screw		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
7	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
8	Silvery metal screw with black plating[R1]		<500	ND	ND	Negative	NA	NA	NA	NA	NA	PASS
9	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
10	Silvery metal with black plating		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
11	Silvery metal	Inside	ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
12	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
13	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
14	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
15	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
16	Coppery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
17	Coppery metal contact point with silvery plating		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
18	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
19	Red plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
20	White glue		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
21	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
22	Silvery mica		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
23	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
24	White ceramic powder		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
25	Blue fabric	Power cord	ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
26	Yellow fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
27	Red fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
28	White fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
29	White plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
30	Silvery metal wire		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
31	Silvery metal spring		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
32	White plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS

-			Result									
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	DBP	BBP	DEHP	DIBP	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-	-	-	-	-
33	Silvery metal	Power cord	ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
34	White fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
35	White plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
36	White fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
37	White fabric		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
38	Brown capacitor		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
39	Transparent plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
40	Transparent bulb		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
41	White plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
42	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
43	Black plastic cable jacket		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
44	Coppery metal wire		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
45	Green and yellow plastic wire jacket		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
46	Brown plastic wire jacket		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
47	Blue plastic wire jacket		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
48	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
49	White plastic		ND	ND	ND	ND	ND*	ND*	ND*	ND*	ND*	PASS
50	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
51	Golden metal with silvery plating		$2.47x10^4$	ND	ND	ND	NA	NA	NA	NA	NA	EX#
52	black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
53	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
54	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
55	Black plastic		ND	ND	ND	ND	ND	ND*	ND*	ND*	ND*	PASS
56	Golden metal		$1.83x10^4$	ND	ND	ND	NA	NA	NA	NA	NA	EX#
57	Golden metal screw		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
58	Coppery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
59	Silvery metal		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
60	White ceramic powder		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
61	White ceramic		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS
62	Silvery metal solder		ND	ND	ND	ND	NA	NA	NA	NA	NA	PASS

Note / Key :

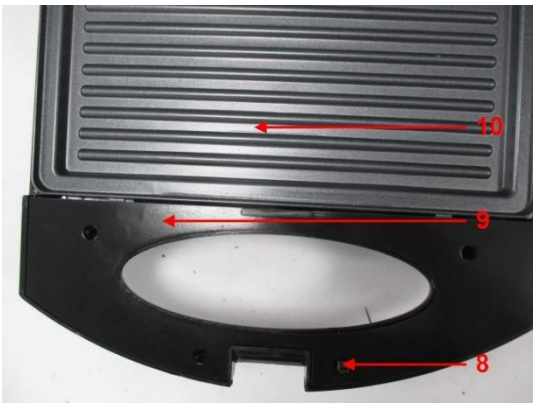
ND = Not detected
NR = Not requested
Detection Limit: See Appendix.
">" = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
NA = Not applicable
"<" = Less than
EX= Exempted

Remark :

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Parliament and Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- For item 51,56:
  #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight.”. Test Item(s) was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- R1=2021-7-12 second submission

Comment :

Photograph depicting Test Item(s)



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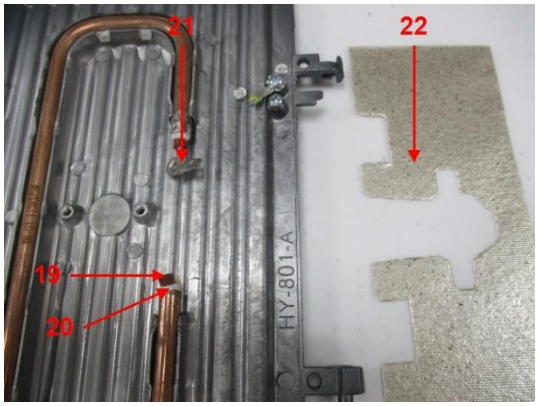
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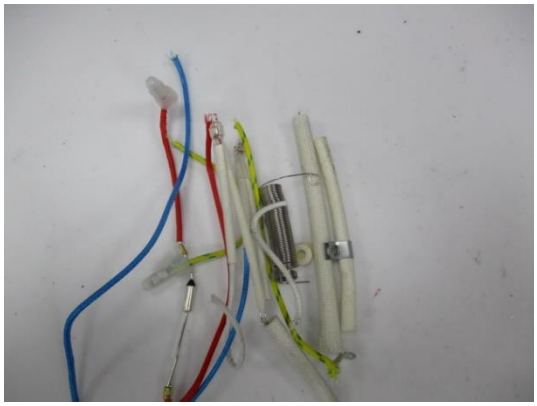

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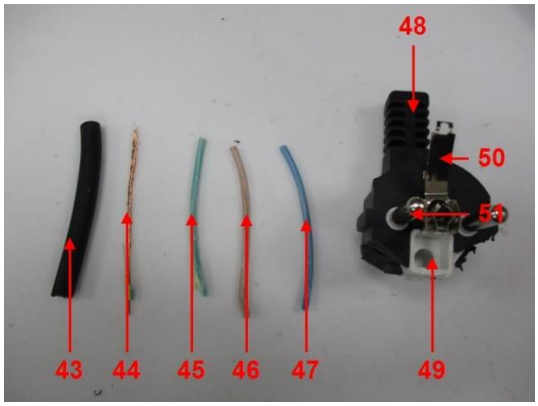
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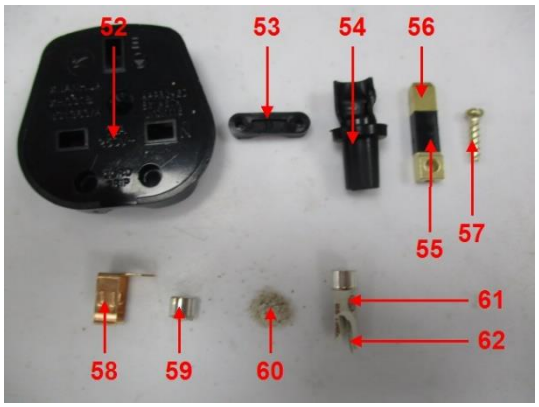

END

APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [Compliance Test for European Parliament and Council Directive 2011/65/EU with its Amendments (EU) 2015/863] :

No.	Name of Analyte(s)	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF)[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10[b]	1000
2	Cadmium (Cd)	50	50	50	10[b]	100
3	Mercury (Hg)	100	200	200	10[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3[g, h] / 10[d] / See [e, i]	1000 / Negative[i]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50[f]	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50[f]	Sum 1000
9	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Diisobutyl phthalate (DIBP)	NA	NA	NA	Each 500[j]	Each 1000

NA = Not applicable IEC = International Electrotechnical Commission

[a] Test method with reference to International Standard IEC 62321-3-1: 2013.

[b] Test method with reference to International Standard IEC 62321-5: 2013.

[c] Test method with reference to International Standard IEC 62321-4: 2013+AMD1: 2017 CSV.

[d] Polymers and Electronics - Test method with reference to International Standard IEC 62321-7-2: 2017.

[e] Metal - Test method with reference to International Standard IEC 62321-7-1: 2015.

[f] Test method with reference to International Standard IEC 62321-6: 2015.

[g] Leather - Test method International Standard ISO 17075: 2017.

[h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2017.

[i] Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).

[j] Test method with reference to International Standard IEC 62321-8: 2017

Testing Approach [Compliance Test for European Parliament and Council Directive 2011/65/EU] :

The testing approach was with reference to the following document(s).

1 International Standards IEC 62321-1: 2013 and IEC 62321-2: 2013

2 "RoHS Enforcement Guidance Document Version 1" by EU RoHS Enforcement Authorities Informal Network. (May 2006)

3 "RoHS Regulations - Government Guidance Notes" by United Kingdom Department for Business Innovation & Skills. (February 2011)

4 "Final Report to RoHS substances (Hg, Pb, Cr(VI), Cd, PBB and PBDE) in electrical and electronic equipment in Belgium" by Belgium Federal Public Service Health, Food Chain Safety and Environment. (November 2005)

Annex

The client declared that the materials used of below Styles are same as tested style HY-815.

Description
HY-801,HY-802,HY-803,HY-805, HY-811,HY-813,HY-901,HY-902, HY-903,HY-906,HY-907，HY-908, HY-908B,HY-812,HY-905,HY-808, HY-201,HY-201B,HY-202,HY-203, HY-205,HY-988,HY-910,HY-909, HY-806,HY-807,

Remark:
Since the client was not able to provide the sample of additional Style, above additional Style(s) hasn't been tested, but only based on the guarantee letter provided by the client. Bureau Veritas-CPS takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client. The client will take the responsibility of all discrepancy and risk.