



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (6618)363-1026
DATE : December 29, 2018
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Date of Submission: 2018-11-12
Test Period: 2018-11-13 to 2018-12-20
BV EE Ref. No.: ACMJ-18DE26-149CTSHP-A0

Sample Description:	Sample(s) received is(are) stated to be: Glue guns		
Style No(s):	TY-G6002A	PO No.:	/
Country of Origin:	/	Country of Destination:	Oversea Country

Test Item(s): Glue guns

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	PASS
Phthalate Test – Reference to (EU) 2015/863 amending Annex II to Directive 2011/65/EU & As Applicant's requirement	PASS

REMARK

If there are questions or concerns on this report, please contact the following persons:

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CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

Laboratory Test Location:

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PREPARED BY :

Abby

Gorden Yu

Lab Manager



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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

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	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
1	Golden metal with silvery plating	Pin holder	ND	ND	ND	ND	NA	PASS
2	White plastic		ND	ND	ND	ND	ND*	PASS
3	Black plastic		ND	ND	ND	ND	ND	PASS
4	Black plastic cable jacket		ND	ND	ND	ND	ND	PASS
5	Brown plastic wire jacket		ND	ND	ND	ND	ND	PASS
6	Blue plastic wire jacket		ND	ND	ND	ND	ND	PASS
7	Coppery metal wire		ND	ND	ND	ND	NA	PASS
8	Black plastic		ND	ND	ND	ND	ND	PASS
9	Silvery metal screw	Housing	ND	ND	ND	ND	NA	PASS
10	Red plastic		ND	ND	ND	ND	ND	PASS
11	Silvery metal with black plating		<500	ND	ND	ND	NA	PASS
12	Red plastic		ND	ND	ND	ND	ND	PASS
13	Black plastic		ND	ND	ND	ND	ND	PASS
14	Silvery plastic label with black printing		ND	ND	ND	ND	ND	PASS
15	Silvery metal		<500	ND	ND	ND	NA	PASS
16	Silvery metal		607*	ND	ND	ND	NA	PASS
17	Black plastic		ND	ND	ND	ND	ND	PASS
18	Black plastic		ND	ND	ND	ND	ND	PASS
19	Golden metal	Inside	ND	ND	ND	ND	NA	PASS
20	Transparent plastic wire jacket		ND	ND	ND	ND	ND	PASS
21	Silvery metal		ND	ND	ND	ND	NA	PASS
22	Black plastic		ND	ND	ND	ND	ND	PASS
23	Yellow resistor		ND	ND	ND	ND	ND	PASS
24	Golden metal (2018-12-19 second submission)		ND	ND	ND	ND	NA	PASS
25	Transparent bulb		ND	ND	ND	ND	NA	PASS
26	Black plastic		ND	ND	ND	ND	ND	PASS
27	Black plastic		ND	ND	ND	ND	ND	PASS
28	Silvery metal		ND	ND	ND	ND	NA	PASS
29	Silvery metal	ND	ND	ND	ND	NA	PASS	
30	Silvery metal spring	ND	ND	ND	ND	NA	PASS	



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-			Result					
Parameter			Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs & PBDEs	Conclusion
Unit			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item	Description	Location	-	-	-	-	-	-
31	Black plastic	Inside	ND	ND	ND	ND	ND*	PASS
32	Black plastic		ND	ND	ND	ND	ND	PASS
33	Silvery metal spring		ND	ND	ND	ND	NA	PASS
34	Silvery metal		ND	ND	ND	ND	NA	PASS
35	Silvery metal		ND	ND	ND	ND	NA	PASS
36	Silvery metal		ND	ND	ND	ND	NA	PASS
37	Yellow plastic		ND	ND	ND	ND	ND	PASS
38	Grey ceramic		EX [#]	ND	ND	ND	NA	EX [#]
39	Silvery metal		ND	ND	ND	ND	NA	PASS
40	Orange plastic		ND	ND	ND	ND	ND	PASS
41	Silvery metal		ND	ND	ND	ND	NA	PASS
42	Silvery metal ball		ND	ND	ND	ND	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 38:
 #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(b) is reiterated here “Lead as an alloying element in aluminium containing up to 0.4 % 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.
 The above results are transferred from (6618)347-1314 dated December 20, 2018.



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TEST RESULT

Phthalate Test – Reference to (EU) 2015/863 amending Annex II to Directive 2011/65/EU & As Applicant's requirement

Test Method : Reference to IEC 62321-8: 2017.

Maximum Allowable Limit : 0.1% (Each)

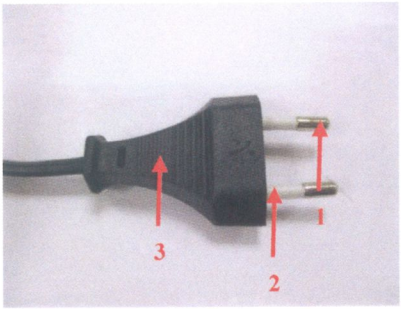
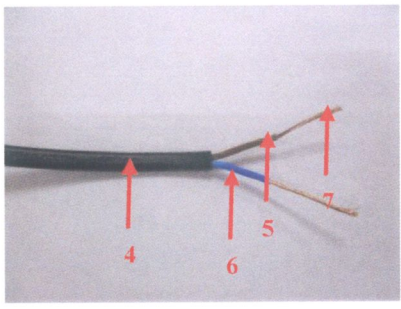
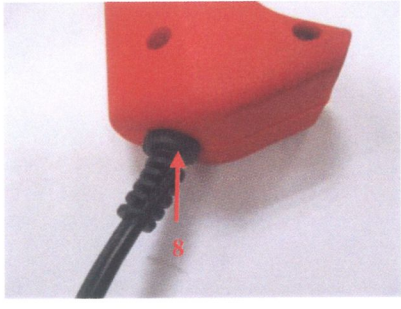
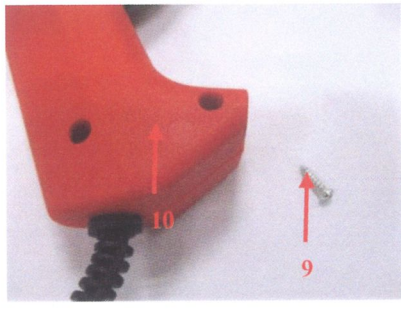
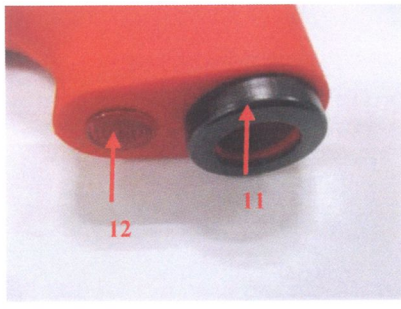

Parameter	CAS No.	Unit	MDL	Result			
				10+12+ 13+14+2	3+4+5+6 +8	17+18+ 20	22+32+ 40
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND	ND	ND	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND	ND	ND	ND
Conclusion	-	-	-	PASS	PASS	PASS	PASS

Parameter	CAS No.	Unit	MDL	Result
				26+27+31+37
Dibutyl phthalate (DBP)	84-74-2	%	0.005	ND
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	ND
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	ND
Conclusion	-	-	-	PASS

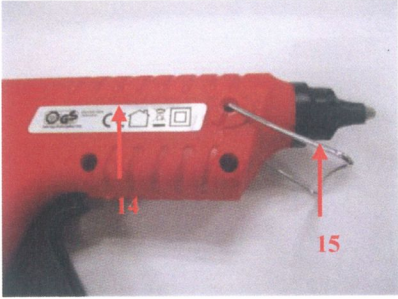
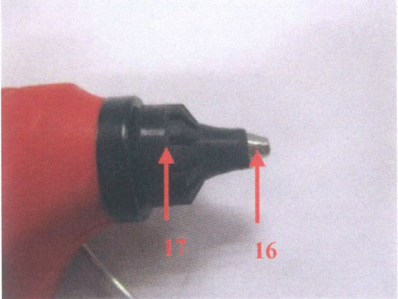
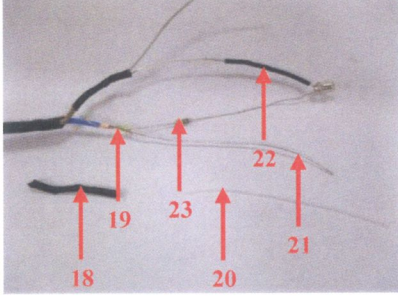
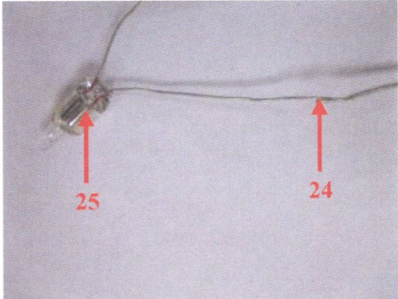
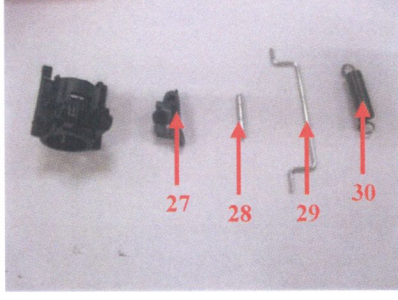
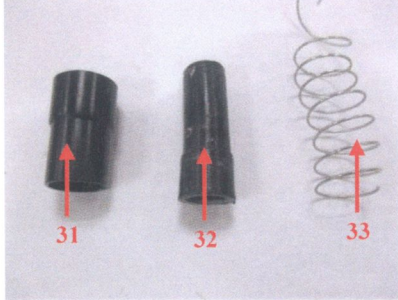
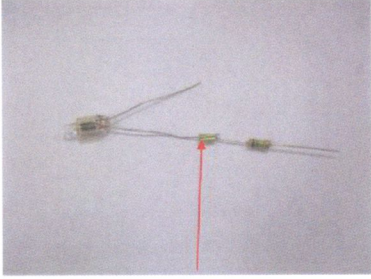
Note: mg/kg= milligram per kilogram % = percentage 1 mg/kg = 0.0001%
MDL = Method Detection Limit ND = Not Detected (< MDL) “-“ = Not Regulated

Comment :

Photograph depicting fail Test Item(s)

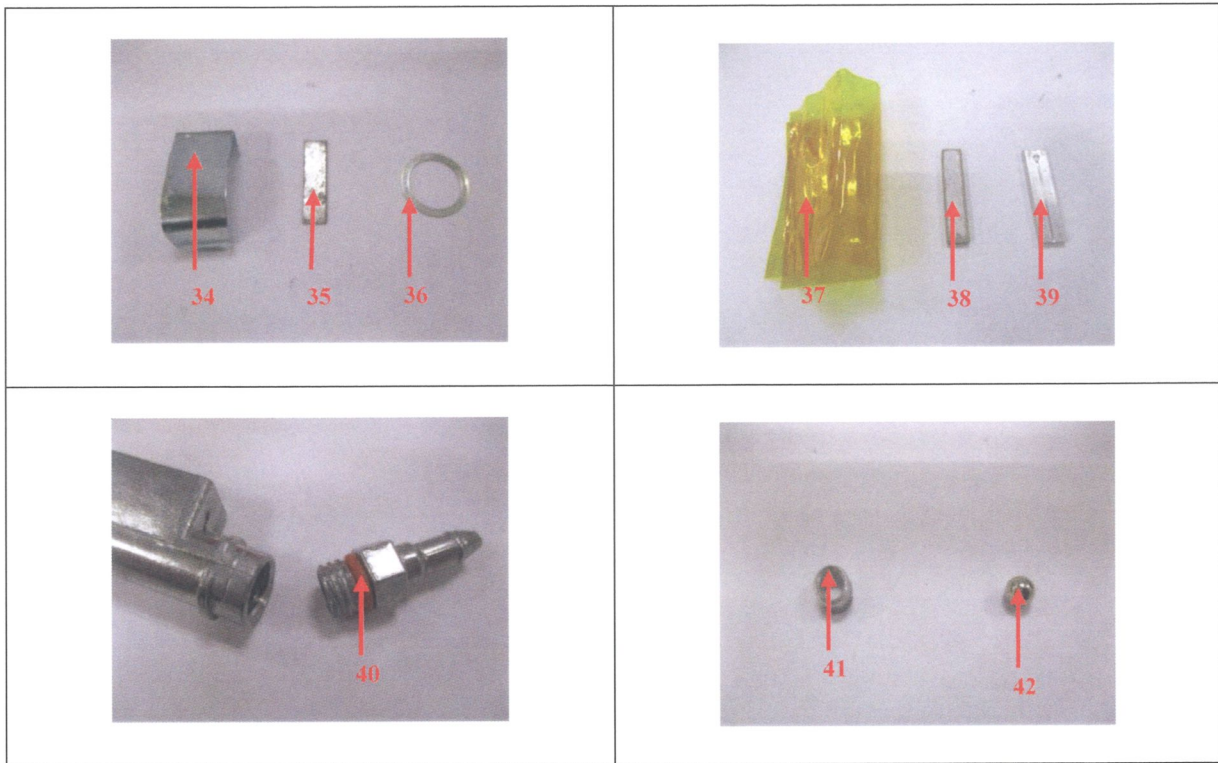
	
	
	



 <p>14 15</p>	 <p>16 17</p>
 <p>18 19 20 21 22 23</p>	 <p>24 25</p>
 <p>27 28 29 30</p>	 <p>31 32 33</p>
 <p>26</p>	<p>/</p>



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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 | :

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]	1 000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1 000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	3 ^[g, h] / 10 ^[d] / See ^[e, i]	1 000 / 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 1 000
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 1 000

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: 2007.
- [h] Other Than Metal, Leather, Polymers and Electronics - Test method with reference to International Standard ISO 17075: 2007.
- [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).

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)



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Annex

The client declared that the materials used of below Styles are same as tested style TY-G6002A.

TY-G1003A, TY-G4001A, TY-G6002A, TY-G6008A, TY-G6006, TY-G6003, TY-G6003-K, TY-G1001-X, TY-G4001-X, TY-G1004, TY-G1004K, TY-G4001K, TY-G1001A