

Test Report

Report No.: NB2024031828

Date: March 13, 2024

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Applicant: YUYAO PINFENG ELECTRICAL APPLIANCE CO., LTD
Address: NO. 60, AREA 3, SIDONGZHA, LINPU VILLAGE, LINSHAN TOWN, YUYAO CITY,
ZHEJIANG PROVINCE, CHINA

The following merchandise were submitted and identified by the clients as:

Sample Name: Salt Lamp Power Cord
Model No.: YCTD-01
Manufacturer: Yuyao Pinfeng Electrical Appliance Co., Ltd
Other Information: SALT-53/54

The following information were confirmed by the laboratory:

Testing Period: From March 8, 2024 to March 13, 2024
Test Results: Please refer to next page(s)

Summary of test results

Test Requested	Conclusion
1 Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS
2 Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

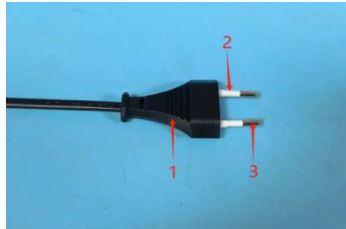
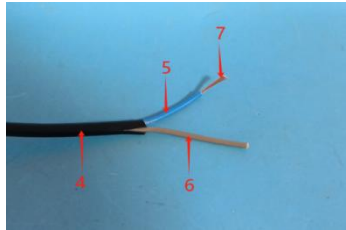
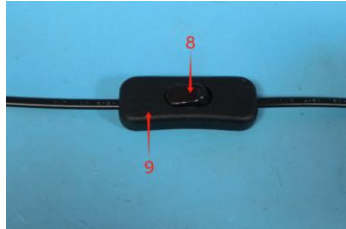
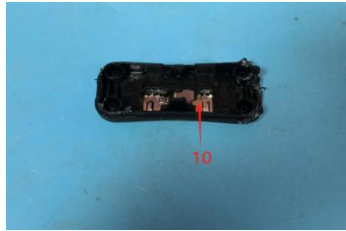
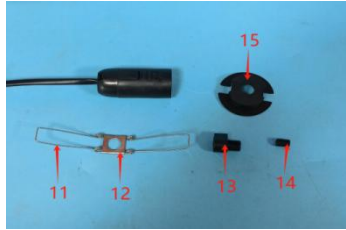
Approved by:

Manager

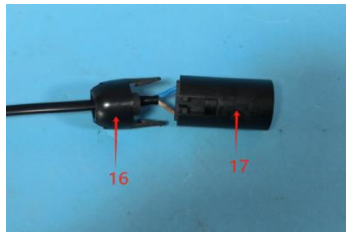
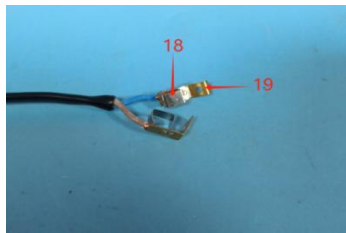
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Test results:

Tested part(s) description:

Test Item(s)	Description	Location	Photo
I001	Black soft plastic handle	Power cord	
I002	White plastic	Power cord	
I003	Silver metal pillar	Power cord	
I004	Black soft plastic sheath	Power cord	
I005	Blue soft plastic wire sheath	Power cord	
I006	Brown soft plastic wire sheath	Power cord	
I007	Copper colored metal wire core	Power cord	
I008	Bright black plastic	Switch	
I009	Black plastic shell	Switch	
I010	Silver metal sheet	Switch	
I011	Silver metal spring	Lamp holder	
I012	Silver metal frame	Lamp holder	
I013	Black plastic cover	Lamp holder	
I014	Black plastic screw	Lamp holder	
I015	Black plastic sheet	Lamp holder	

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Test Item(s)	Description	Location	Photo
I016	Black plastic seat	Lamp holder	
I017	Black plastic screw sleeve	Lamp holder	
I018	Silver metal sheet	Lamp holder	
I019	Gold metal sheet	Lamp holder	

1.1. Screening Test for the Certain Hazardous Substances of RoHS

- Heavy Metal (Lead, Cadmium, Mercury, Chromium) Content Test
- Bromine Content Test

Test Method: IEC62321-3-1:2013, and Quantification Analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I001	BL	BL	BL	BL	BL	PASS
I002	BL	BL	BL	BL	IN	-
I003	IN	BL	BL	BL	N.A.	-
I004	BL	BL	BL	BL	BL	PASS
I005	BL	BL	BL	BL	BL	PASS
I006	BL	BL	BL	BL	BL	PASS
I007	BL	BL	BL	BL	N.A.	PASS
I008	BL	BL	BL	BL	BL	PASS
I009	BL	BL	BL	BL	IN	-
I010	BL	BL	BL	BL	N.A.	PASS
I011	BL	BL	BL	IN	N.A.	-
I012	BL	BL	BL	IN	N.A.	-
I013	BL	BL	BL	BL	BL	PASS
I014	BL	BL	BL	BL	BL	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	Conclusion
Test Item(s)	Result (mg/kg)					
I015	BL	BL	BL	BL	BL	PASS
I016	BL	BL	BL	BL	IN	-
I017	BL	BL	BL	BL	IN	-
I018	BL	BL	BL	IN	N.A.	-
I019	BL	BL	BL	BL	N.A.	PASS

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %
2. "OL" denotes "over limit" ; "BL" denotes "below limit" ; "N.A." denotes "Not Applicable" ; "IN" denotes "Inconclusive" , thus further confirmation test was conducted, results are listed in 1.2 & 1.3.
3. PBBs&PBDEs were evaluated by Bromine content of XRF screening.
4. XRF screening limits for different materials:

Element	Polymers	Metal	Composite material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

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1.2. Test for Heavy Metals

- Lead, Cadmium and Chromium Content Tests according to IEC 62321-5:2013.
- Mercury Content Test according to IEC 62321-4:2013+AMD1:2017.
- Chromium VI Content in Metal Test according to IEC 62321-7-1:2015.
- Chromium VI Content in Polymers and Electronic Test according to IEC 62321-7-2:2017.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	Conclusion
Detection Limit	10	10	10	10 / Δ	
Requirements	1000	100	1000	1000 / Negative	
Test Item(s)	Result (mg/kg)				
I003	56	/	/	/	PASS
I011	/	/	/	Negative	PASS
I012	/	/	/	Negative	PASS
I018	/	/	/	Negative	PASS

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. "N.D." = "Not Detected".
3. "Δ" = 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 Council Directive 2011/65/EU, Article 4(1)(less than 0.10μg/cm²). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1)(greater than 0.13μg/cm²).

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1.3. Test for Flame Retardants

Test Method: IEC62321-6:2015, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte		Result (mg/kg)				Requirement (mg/kg)
		I002	I009	I016	I017	
PBBs	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	
PBDEs	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	
Conclusion		PASS	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".

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2. Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Analyte	Result (mg/kg)			Requirement (mg/kg)
	I001+I002+I008	I004+I005+I006	I009+I013+I014	
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)	Requirement (mg/kg)
	I015+I016+I017	
Dibutyl phthalate (DBP)	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	1000
Conclusion	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.
2. MDL= Detection Limit = 50mg/kg.
3. "N.D." = "Not Detected".
4. Results shown are of the total weight of mixed samples.

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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Samples photograph



NBTS authenticate the photograph on original report only

*** End of Report ***

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