



TEST REPORT

Report No.: STSGZ2304213033E

Date: 19-May-2023

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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Wooden weed tree ornament with led lights

Model/Style/Item #: CX1530; CX1531

Receiving Date: 21-Apr-2023, 4-May-2023, 15-May-2023

Test Period: From 21-Apr-2023 to 17-May-2023

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP and DIBP EU RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863 (RoHS)	IEC 62321-3-1:2013 IEC 62321-4:2013+A1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017	PASS
2	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV).	PASS

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

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Result:

1.1 EU RoHS Directive 2011/65/EU and its amendment directives on XRF IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Brown plywood,shell	BL	BL	BL	BL	BL
2	Transparent white plastic,lump	BL	BL	BL	BL	BL
3	Grey textile,string	BL	BL	BL	BL	BL
4	Golden metal,holder	BL	BL	BL	BL	NA
5	Silvery metal,contact plate	BL	BL	BL	BL	NA
6	Black plastic,switch	BL	BL	BL	BL	BL
7	Silvery metal,solder	BL	BL	BL	BL	NA
8	Brown plastic,board	BL	BL	BL	BL	BL
9	Silvery metal,lead	BL	BL	BL	BL	NA
10	Transparent dry glue,holder	BL	BL	BL	BL	BL
11	Silvery metal,wire	BL	BL	BL	BL	NA
12	Brown density board,shell	BL	BL	BL	BL	BL
13	Silvery metal,solder	BL	BL	BL	BL	NA
14	Silvery metal,solder	BL	BL	BL	BL	NA

Remark:

- (1) Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2013.

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	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$

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Br	mg/kg	BL≤300-3σ< X	--	BL≤250-3σ< X
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Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

NA = Not Applicable

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives (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
Polybrominated diphenyl ethers (PBDEs)	1000

(4) Disclaimers:

This XRF Screening 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 screening 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.

- (5) The data of #7 was retesting result.

1.2 Phthalates – (DBP, BBP, DEHP, DIBP)
IEC 62321-8:2017, Solvent extract and determined by GC/MS

Compound			Material				Limit (%)	RL(%)
			1	2	3	6		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	PASS	PASS	-	-

Compound			Material			Limit (%)	RL(%)
			8	10	12		
1	DBP	Dibutylphthalate CAS# 84-74-2	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

2. Formaldehyde - EN 71-9:2005+A1:2007 With reference to EN 717-3:1996, analyzed by UV Spectrophotometer (UV).

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	12		
1	Formaldehyde	N.D.	N.D.	80	10
Conclusion		PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
(b) RL: Report limit.
(c) N.D.: Not detected (result is less than RL)

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Photo(s):



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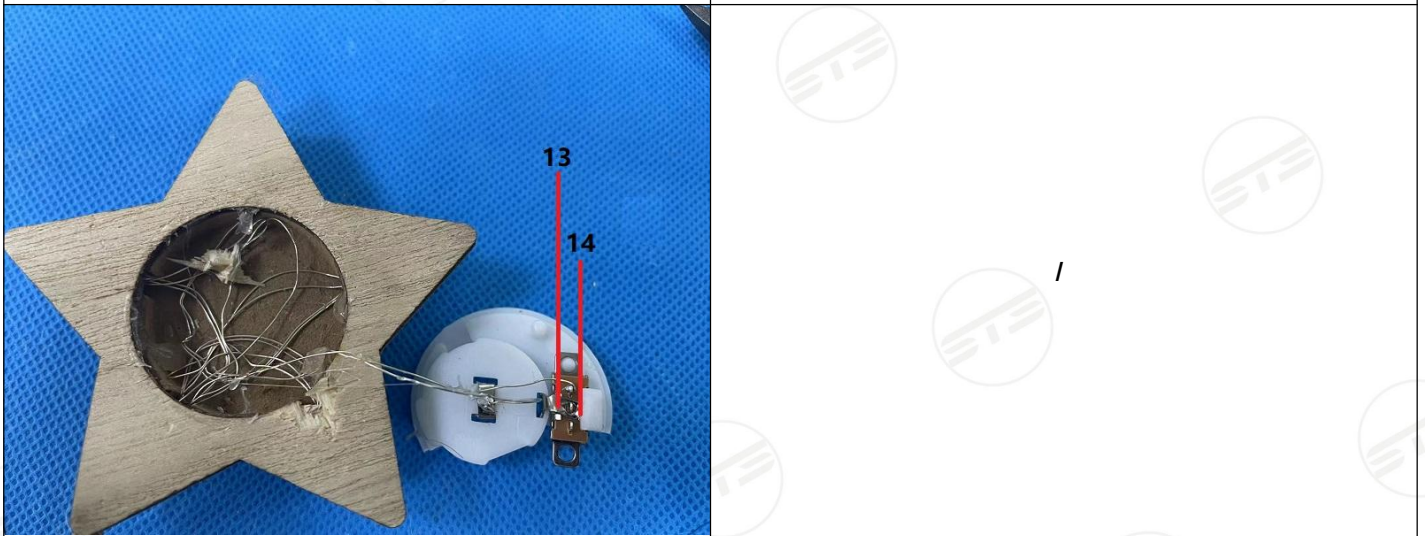
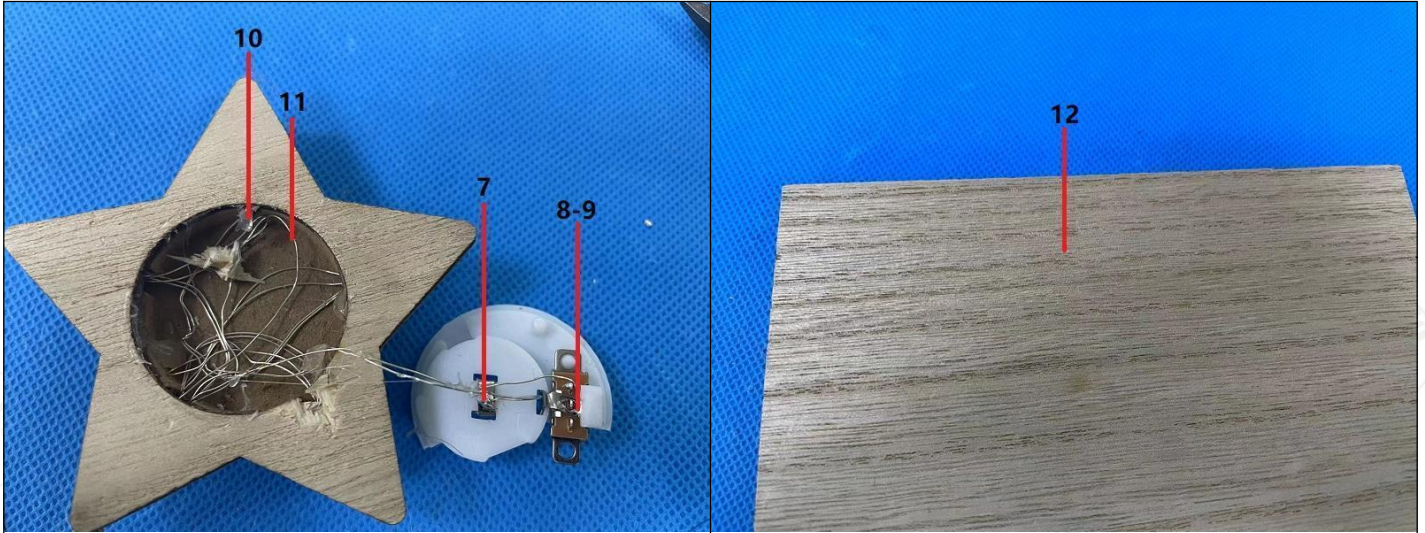
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Product Photo

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