

TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 1 of 7

XIAMEN GREEN WAY ELECTRONIC TECHNOLOGY CO., LTD

厦门格睿伟业电子科技有限公司

No.8057, Xiang' an West Road, Xiamen City, PRC China

福建省厦门市翔安火炬二期翔安西路8057号

Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下：

Sample Description: ceramic heater element

样品描述：陶瓷发热芯

Color: white

颜色：白

Tested Style/Item No.①: E6038

主测型号：

Additional Style/ Item No.②: G90105、G94115、G106115、E13295、E7550、E7060、E7050、E075124、

附加型号：X34255、X50295、X5725、X5729、X57285、X5835、P04900

Remark:

备注：

①The tested Style/ Item No. is tested by the lab. ②The Additional Styles/ Items No. declared in the applicant' s declaration are not tested, the materials and weight percentage of them are the same as the tested parts and the result of the test report is only responsible for the test sample.

①实验室测试型号②附加型号:未测试型号，根据申请人所提供的同材质声明，以上所列附加型号样品与测试型号样品均为同种材质制成且重量百分比与主测型号完全相同，测试报告的结果仅对测试的样品负责。

Sample Receiving Date: May 05,2022

收样日期: 2022年05月05日

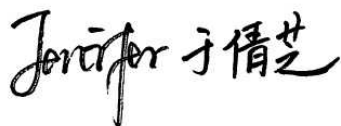
Testing Period: May 05,2022 - May 18,2022

测试周期: 2022年05月05日 - 2022年05月18日

Result: Please refer to next page(s).

测试结果: 请参见后续页。

Signed for and on behalf of BACL (BACL 授权签名)



Checked by:

审核:

Jenifer Yu-于倩芝

Approved by:

核准:

Fedor Zhang-张成



TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 2 of 7

Summary of Test Result:

测试结果概要:

TEST REQUEST

测试要求

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863
RoHS指令2011/65/EU及其修正指令(EU) 2015/863

A.1 XRF screening test
XRF筛选测试

A.2 Phthalates(DBP, BBP, DEHP, DIBP)content
邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP) 含量

CONCLUSION

结论

Pass
合格

Please refer to next page(s).
请参见后续页。

Please refer to next page(s).
请参见后续页。

TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 3 of 7

A RoHS Directive 2011/65/EU and its amendment directives (EU) 2015/863

RoHS指令2011/65/EU及其修正指令(EU) 2015/863

A.1 XRF screening test

XRF筛选测试

Test Method/测试方法: IEC 62321-3-1:2013

Seq No. 序号	Tested Part(s) 测试部位	Result 测试结果				
		Pb	Cd	Hg	Cr	Br
(1)	Silvery metal(wire) 银色金属-线	BL	BL	BL	BL	---
(2)	Silvery metal(connection strap) 银色金属-连接片	BL	BL	BL	BL	---
(3)	Silvery solder(connection strap) 银色焊锡-连接片	BL	BL	BL	BL	---
(4)	White ceramic(heating core) 白色陶瓷-发热芯	BL	BL	BL	BL	BL

Note:

备注:

--- = Not Applicable.

--- = 该项目不适用。

TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 4 of 7

Remark:

i Result 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 IEC62321-3-1:2013.

备注:

I 测试结果为XRF荧光扫描的初步测试结果, 如果浓度超出IEC62321-3-1:2013规定的最低警戒值应进一步采用化学方法测试, 采用ICP (测Cd, Pb, Hg), UV-Vis (测 Cr(VI)), GC-MS(测 PBBs, PBDEs)。

Element 元素	Unit 单位	Polymers 聚合物	Metal 金属	Composite Material 合测材料
Cd	mg/kg	BL≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

注释:

BL = 低于限量

OL = 超出限量

IN/X = 不确定 (可疑的, 需要进一步做化学测试)

ii The XRF screening 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 the RoHS directive 2011/65/EU:

II RoHS 元素的XRF荧光扫描测试 – 由非均一物质组成的样品检测出来的数据与实际含量可能不同。

III 最大允许限量引用RoHS 指令 2011/65/EU:

RoHS Restricted Substances RoHS 指令的限定物质	Maximum Concentration Value (mg/kg) (by weight in homogenous materials) 最大浓度 (mg/kg)(同种材质的重量比)
Cadmium镉 (Cd)	100
Lead铅 (Pb)	1000
Mercury汞 (Hg)	1000
Hexavalent Chromium六价铬 (Cr(VI))	1000
Polybrominated biphenyls多溴联苯 (PBBs)	1000
Polybrominated diphenylethers多溴联苯醚 (PBDEs)	1000

TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 5 of 7

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.

声明：

XRF扫描报告结果仅供参考。申请人需自己根据本XRF扫描报告结果判定所提供测试的样品是否符合自己的用途。

影响XRF扫描测试结果的不确定因素很多，包括但不限于如样品大小、厚度、面积、表面平整度、仪器参数和基质效应（例如：塑胶、橡胶、金属、玻璃、陶瓷等等）。定量结果需要进一步的相关化学仪器分析以及湿式化学处理才能得出。

A.2 Phthalates(DBP, BBP, DEHP, DIBP)content

邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP) 含量

Test Method/测试方法: IEC 62321-8:2017

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(4)	
Dibutyl Phthalate(DBP) 邻苯二甲酸二丁酯	%	0.010	N.D.	0.1
Benzyl Butyl Phthalate(BBP) 邻苯二甲酸丁基苄基酯	%	0.010	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基)己酯	%	0.010	N.D.	0.1
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯	%	0.010	N.D.	0.1
Conclusion 结论	/	/	Pass 合格	/

Note:

注释：

- N.D. = Not Detected or less than RL
N.D. = 未检出或小于报告限
- RL = Report Limit
RL = 报告限
- 0.1% = 1000mg/kg, mg/kg = ppm

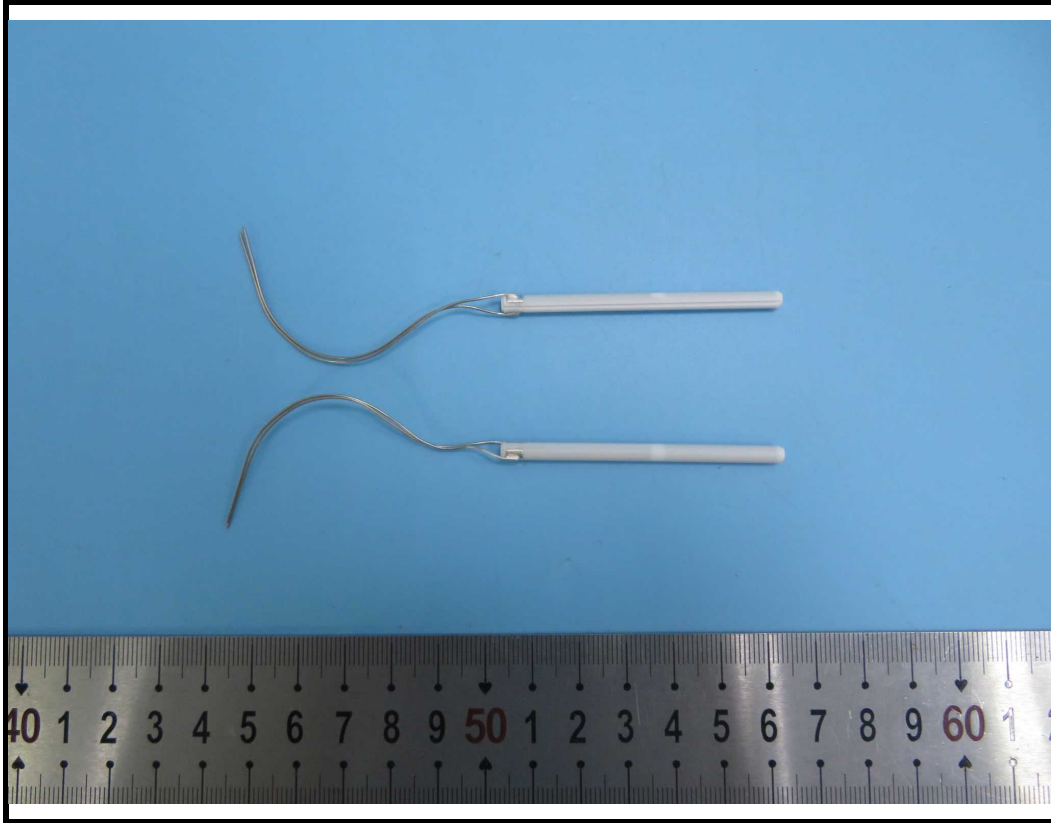
TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 6 of 7

Photograph of Sample
样品照片



BACL authenticate the photo on original report only
此图片仅限于随 BACL 正本报告使用

TEST REPORT

Report No.: XMDN220505-18127A

Date: May 24, 2022

Page 7 of 7

Statement:

- 声明：
- 1.This report cannot be reproduced except in full, without prior written approval of the Company.
除全文复制外，未经实验室批准不得部分复印报告。
 - 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
除非另有声明，本报告中测试结果仅与被测样品相关。测试样品默认保存30天。
 - 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
本报告的有效性取决于本报告中电子签章的有效性。电子签章只适用于在Adobe系列软件7.0以上版本中查看。
 - 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
除非申请商要求或产品法规另有规定，否则本报告判定规则不考虑不确定度。
 - 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
本报告中申请商提供的信息，如样品描述，样品名称，材料成分，型号，订单号，制造商，年龄段，可能和报告结果的有效性相关，本实验室不对其真实性负责。
 - 6.The test samples were in good condition before testing.
在进行测试前，测试样品已确认状态完好。
 - 7.The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
本报告给出的扩展不确定度是由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到的。
 - 8.本报告中的数据结果用于学习、研究、内部质量控制、产品研发、科研，教学等目的。

*** End of Report ***

*** 报告结束***

Photograph of Sample (For Reference)
样品照片 (仅供参考)

