

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 1 of 10

Xiamen Innovacera Advanced Materials CO., LTD

厦门英诺华新材料有限公司

A506-507, No. 7 Yu' nan Fourth Road, Huli District, Xiamen area of China (Fujian) Pilot Free Trade Zone

厦门市湖里区屿南四路7号自贸金融中心A栋5层06-07单元

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:	Boron Nitride Ceramic
样品描述：	氮化硼陶瓷片
Style/Item No.:	40*40*4
型号：	
Color:	White
颜色：	白色
Country of Origin:	China
原产地：	中国
Manufacturer:	:Xiamen Innovacera Advanced Materials CO., LTD
制造商：	厦门英诺华新材料有限公司
Supplier:	Xiamen Innovacera Advanced Materials CO., LTD
供应商：	厦门英诺华新材料有限公司
Sample/EUT Status:	Good condition
样品状态:	完好
Sample Receiving Date:	November 25, 2021
收样日期:	2021 年 11 月 25 日
Testing Period:	November 25, 2021 - December 01, 2021
测试周期:	2021 年 11 月 25 日 - 2021 年 12 月 01 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.: XMTN1211125-60732A

Date: December 01, 2021

Page 2 of 10

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 Wet Chemical Testing

湿化学测试

A.1.1 Total Lead content

总铅含量

A.1.2 Total Cadmium content

总镉含量

A.1.3 Total Mercury content

总汞含量

A.1.4 Chromium VI (CrVI) content

六价铬含量

A.1.5 PBBs & PBDEs content

多溴联苯和多溴二苯醚含量

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。

Please refer to next page(s).

请参见后续页。

Please refer to next page(s).

请参见后续页。

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.: XMTN1211125-60732A

Date: December 01, 2021

Page 3 of 10

Result:

测试结果:

Tested part(s):

测试部位:

(1) White alumina porous ceramic

白色氮化硼陶瓷片

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 4 of 10

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 Wet Chemical Testing

湿化学测试

A.1.1 Total Lead content

总铅含量

Test Method/测试方法: IEC 62321-5:2013

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
Lead(Pb) 铅	mg/kg	10	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

A.1.2 Total Cadmium content

总镉含量

Test Method/测试方法: IEC 62321-5:2013

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
Cadmium(Cd) 镉	mg/kg	10	N.D.	100
Conclusion 结论	/	/	Pass 合格	/

A.1.3 Total Mercury content

总汞含量

Test Method/测试方法: IEC 62321-4:2013+AMD1:2017 CSV

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
Mercury(Hg) 汞	mg/kg	10	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 5 of 10

A.1.4 Chromium VI (CrVI) content

六价铬含量

Test Method/测试方法: IEC 62321-7-2:2017

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
hexavalent chromium(Cr VI) 六价铬	mg/kg	10	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

A.1.5 PBBs & PBDEs content

多溴联苯和多溴二苯醚含量

Test Method/测试方法: IEC 62321-6:2015

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
Monobromobiphenyl (MonoBB) 一溴联苯	mg/kg	100	N.D.	-
Dibromobiphenyl(DiBB) 二溴联苯	mg/kg	100	N.D.	-
Tribromobiphenyl(TriBB) 三溴联苯	mg/kg	100	N.D.	-
Tetrabromobiphenyl(TetraBB) 四溴联苯	mg/kg	100	N.D.	-
Pentabromobiphenyl(PentaBB) 五溴联苯	mg/kg	100	N.D.	-
Hexabromobiphenyl(HexaBB) 六溴联苯	mg/kg	100	N.D.	-
Heptabromobiphenyl (HeptaBB) 七溴联苯	mg/kg	100	N.D.	-
Octabromobiphenyl(OctaBB) 八溴联苯	mg/kg	100	N.D.	-
Nonabromobiphenyl(NonaBB) 九溴联苯	mg/kg	100	N.D.	-
Decabromobiphenyl(DecaBB) 十溴联苯	mg/kg	100	N.D.	-
Monobromodiphenyl ether (MonoBDE) 一溴二苯醚	mg/kg	100	N.D.	-

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 6 of 10

Item 项目	Unit 单位	RL	Result 测试结果	Limit 限量
			(1)	
Dibromodiphenyl ether (DiBDE) 二溴二苯醚	mg/kg	100	N.D.	-
Tribromodiphenyl ether (TriBDE) 三溴二苯醚	mg/kg	100	N.D.	-
Tetrabromodiphenyl ether (TetraBDE) 四溴二苯醚	mg/kg	100	N.D.	-
Pentabromodiphenyl ether (PentaBDE) 五溴二苯醚	mg/kg	100	N.D.	-
Hexabromodiphenyl ether (HexaBDE) 六溴二苯醚	mg/kg	100	N.D.	-
Heptabromodiphenyl ether (HeptaBDE) 七溴二苯醚	mg/kg	100	N.D.	-
Octabromodiphenyl ether (OctaBDE) 八溴二苯醚	mg/kg	100	N.D.	-
Nonabromodiphenyl ether (NonaBDE) 九溴二苯醚	mg/kg	100	N.D.	-
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚	mg/kg	100	N.D.	-
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	N.D.	1000
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 7 of 10

Remark:

备注:

The maximum permissible limit is quoted from RoHS directive 2011/65/EU its amendment directives:

最大允许限量引用RoHS 指令 2011/65/EU及其修正指令:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg)
RoHS 指令的限定物质	(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 多溴二苯醚(PBDEs)	1000

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
- "--" = Not Regulated
"--" = 未规定
- mg/kg = ppm
- The results less than RL are not taken into account while calculating the sum contents.
加和含量计算时未计入小于报告限的结果。

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
			(1)	
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	/

TEST REPORT

Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 8 of 10

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

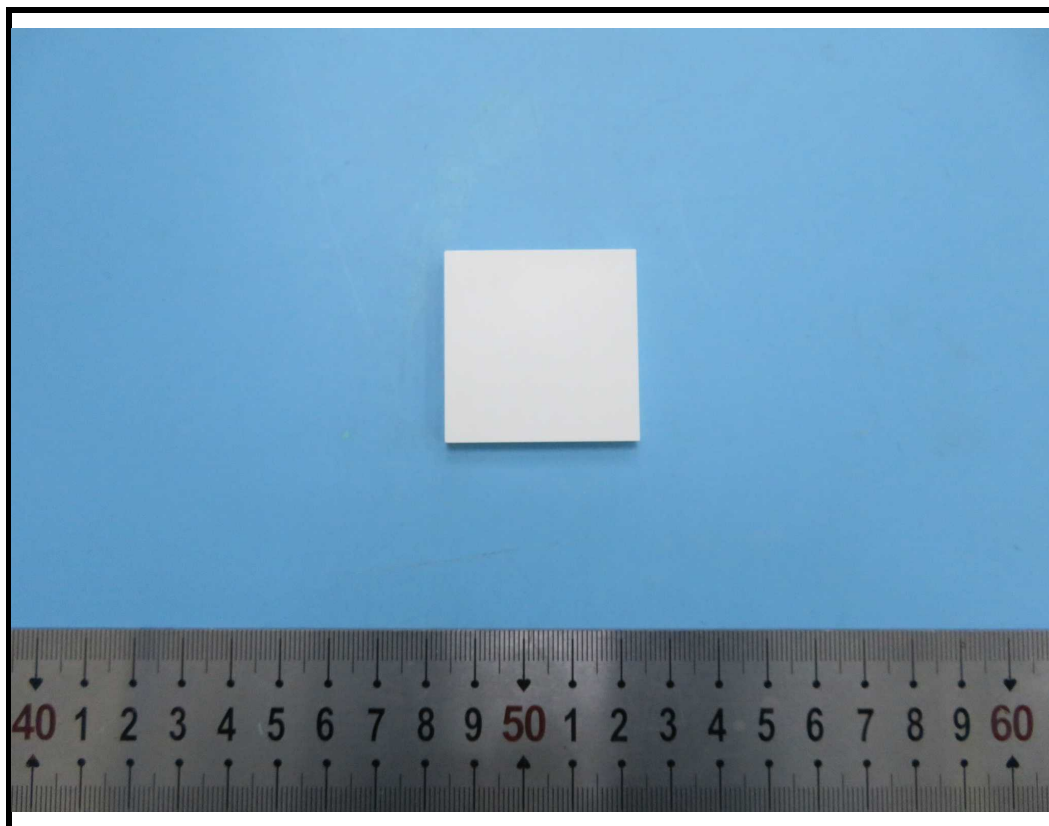
Report No.: XMTN1211125-60732A

Date: December 01, 2021

Page 9 of 10

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.: XMTN1211125-60732A

Date: December 01, 2021

Page 10 of 10

Directions:

说明：

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., manufacture, 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、材料成份、型号、PO号、生产商，样品适用年龄，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 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。
7. The data results in this report are used for learning, research, internal quality control, product development, scientific research, teaching, etc.
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***