Test Report

Applicant	:	Shenzhen Xicheng Environmental Technology Co., Ltd.
Address	:	N0.34 Zhenxing Road(Shengtaian Heavy Industrial Park B),Loucun,Guangming New Dist, Shenzhen, Guangdong, China (Mainland)

Name of sample	:	Adsorption tower
Receiving Date	:	2019.11.18
Test Date	:	2019.11.18-2019.11.21
Test Location	:	Guangzhou Chemistry Laboratory
Test Method	:	Please refer to“Test Results”
Testing Item	:	Pb, Cd, Hg, Cr (VI), PBBs, PBDEs, DEHP, DBP, BBP, DIBP
Decision Rule	:	RoHS Directive 2011/65/EU and Amendment (EU)2015/863
Conclusion	:	Pass

Signed for and on behalf of
Shenzhen United Testing Technology Co.,Ltd

Huang Yong
Approved Signatory

2019.11.26
Issue Date

深圳市优耐检测技术有限公司
Shenzhen United Testing Technology Co.,Ltd.

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1、Sample information(s)

The following information of sample(s) was/were submitted and identified by applicant:

Product Model	:	XC-02
Manufacturer	:	Shenzhen Xicheng Environmental Technology Co., Ltd.
Trade Name	:	XiCheng

2、Conclusion

The sample(s) was/were detected and according to the results, the conclusion are as follows:

Test Item(s)	Decision Rule	Conclusion
Pb, Cd, Hg, Cr (VI), PBBs, PBDEs, DEHP, DBP, BBP, DIBP	RoHS Directive 2011/65/EU and Amendment (EU)2015/863	Pass

3、Test Part Description

The sample(s) was/were disassembled according to IEC 62321-2:2013.

No.	Description	Material
M001	Beige plastic plate	Polymer
M002	Black grey plastic plate	Polymer
M003	White plastic plate	Polymer
M004	Black activated carbon	Polymer
M005	Beige plastic screw	Polymer
M006	Black grey plastic screw	Polymer
M007	Beige plastic rod	Polymer
M008	Black grey plastic rod	Polymer

Note: This table is used to identify each test part of the Sample. Different descriptions in the "Description" column are only used to distinguish each test part. "Material" column are only gives a simple Description of the material of each test part, which does not mean that this is the result of a material identification.

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4、Test Results

4.1 Element screening and Phthalates testing

The total amount of lead, cadmium, mercury and chromium was screened by X-ray fluorescence spectrometer (XRF).

XRF screening technical requirements:

Lead, Mercury: Pass≤700 mg/kg -3δ＜C＜1300 mg/kg +3δ≤Fail,

Cadmium :Pass≤70 mg/kg -3δ＜C＜130 mg/kg +3δ≤Fail,

Chromium :Pass≤700 mg/kg -3δ＜C, Bromine :Pass≤250 mg/kg -3δ＜C.

“C”=Indicates that a chemical test is required. Chromium pass meets Hexavalent Chromium standards compliant, Bromine pass means that PBBs and PBDEs are standards compliant.

DEHP, DBP, BBP and DIBP are analyzed by GC-MS. According to the requirements of the RoHS Directive, The content of DEHP, DBP, BBP and DIBP≤1000mg/kg (0.1%).

4.1.1 M001

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.2 M002

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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4.1.3 M003

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.4 M004

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.5 M005

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.6 M006

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

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4.1.7 M007

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

4.1.8 M008

Test Item(s)	CAS No.	Test Method	MDL	Result	Unit	Judgment
Lead (Pb)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Cadmium (Cd)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Mercury (Hg)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Chromium (Cr)	--	IEC 62321-3-1:2013	10	ND	mg/kg	Pass
Bromine (Br)	--	IEC 62321-3-1:2013	20	ND	mg/kg	Pass
DEHP	117-81-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DBP	84-74-2	IEC 62321-8:2017	50	ND	mg/kg	Pass
BBP	85-68-7	IEC 62321-8:2017	50	ND	mg/kg	Pass
DIBP	84-69-5	IEC 62321-8:2017	50	ND	mg/kg	Pass

Notes:

1) 1mg/kg = 0.0001%

2) MDL=Method Detection Limit

3) ND= Not Detected(<MDL)

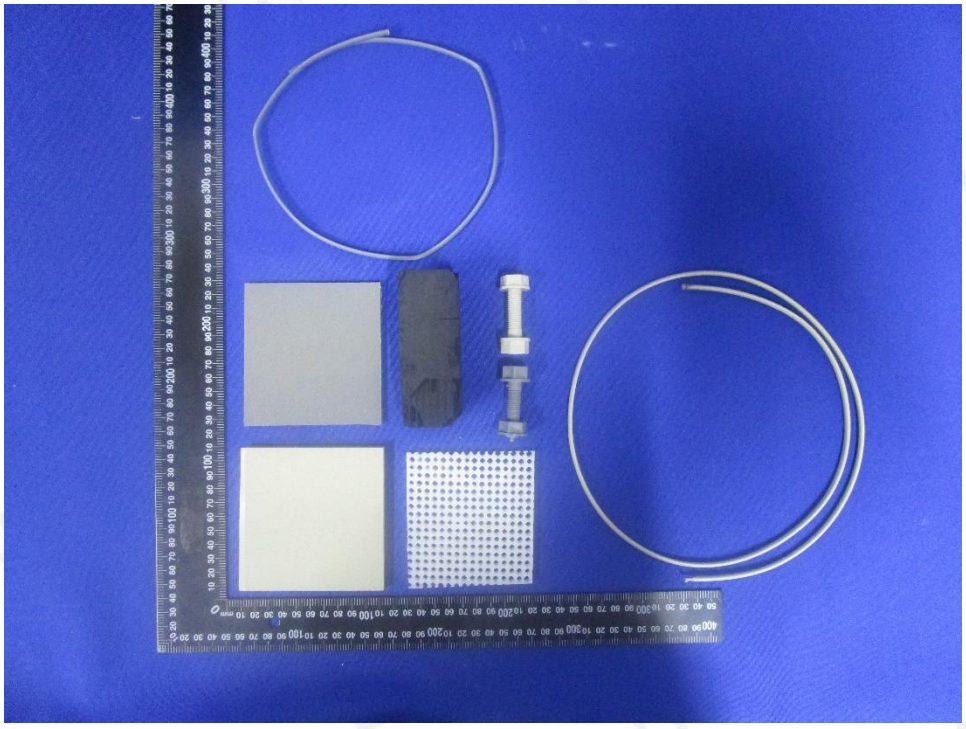
4) "--"=No Testing or Blank or Not applicable.

5) Polybrominated biphenyls (PBBs) included:
Monobromobiphenyl, Dibromobiphenyl, Tribromobiphenyl, Tetrabromobiphenyl, Pentabromobiphenyl, Hexabromobiphenyl, Heptabromobiphenyl, Octabromobiphenyl, Nonabromobiphenyl, Decabromobiphenyl.

6) Polybrominated diphenyl ethers (PBDEs) included:
Monobromodiphenyl ether, Dibromodiphenyl ether, Tribromodiphenyl ether, Tetrabromodiphenyl ether, Pentabromodiphenyl ether, Hexabromodiphenyl ether, Heptabromodiphenyl ether, Octabromodiphenyl ether, Nonabromodiphenyl ether, Decabromodiphenyl ether.

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5、Sample Photo(s)



The sample photo(s) is /are only used to inform the applicant that the sample received by the laboratory is/are shown in the photo(s), which does not prove the appearance and quality of the applicant's products.

*****End of Report*****

Notes: This report must have the signature of the authorized signatory and the special seal of the report, otherwise it will be considered invalid.

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