

Report No.	CKT250211-035E
Total Pages	8

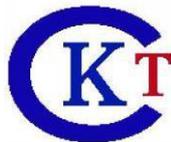
# TEST REPORT

Sample Black plastic powder

Type /

Client Cixi Shiqiao Shengli Electric Appliance Factory

Manufacturer /



HUAKUN TESTING



TRF No. CKT0062

# Test Report

**Client:** Client: Cixi Shiqiao Shengli Electric Appliance Factory  
Address: No. 2 Shengli Road, Wudongzha Village, Guanhaiwei Town, Cixi City, Zhejiang Province

**Manufacturer:** /

**Date Submitted:** 2025-02-11

**Sample Name:** Black plastic powder

**Sample Quantity:** 1pc

**Test Item:** RoHS2.0: Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs, DIBP, DBP, BBP, DEHP

**Test periods:** 2025-02-11~2025-02-14

**Test Method:** RoHS Directive(EU) 2015/863 amending Annex II to Directive 2011/65/EU & the Client's requirements.

**Test Ambient:** Temperature 20°C      Humidity 50%RH      Air pressure: 101kPa

**Test Instruments:**

EDX	Model: EDX-720	SN: CKT0306
Emission Spectrometer	Model: ICAP-6300	SN.: CKT0049
UV-Vis Spectrophotometer	Model: UV-Vis1240	SN.: CKT0035
GC-MS	Model: 2010plus	SN.: CKT0037
Electronic balance	Model: BP190S	SN.: CKT0025

**Test Result:** Pass. Refer to page 4-6.

**Remark:** The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.



**Prepared:**  
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DATE: 2025-02-14

**Supervised:**  
Xu Jiaxin  
  
DATE: 2025-02-14

**Approved:**  
Du Haiyu  
  
DATE: 2025-02-14

Remark: The results shown in this test report refer only to the sample(s) tested unless otherwise stated this test report shall not be reproduced, except in full, without written approval of the Company. The content or appearance of this test report without written authorization to change or modify behavior is illegal.



## 1 Sample Description

1pc sample was submitted by the client for test. The sample description was shown in Table 1. The representative appearance photo of the sample before test was shown in Fig.1.

Table 1 Sample Description

Sample Name	Quantity	Sample No.	Test Item	photo
Black plastic powder	1pc	250211035C001	RoHS2.0: Pb, Cd, Hg, Cr6 <sup>+</sup> , PBBs, PBDEs, DIBP, DBP, BBP, DEHP	Fig.1



## 2 Testing Method

Test methods were shown in table 2.

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Table 2 Test method

Testing Item	Testing Method	Test Instruments	Testing Limit(mg/kg)
Pb	With reference to IEC 62321-5: 2013 Ed.1.0	ICP-OES	2
Cd	With reference to IEC 62321-5: 2013 Ed.1.0	ICP-OES	2
Hg	With reference to IEC 62321-4: 2013 Ed.1.0	ICP-OES	2
Cr <sup>6+</sup>	With reference to IEC 62321-7-2: 2017	UV-VIS	1
PBBs, PBDEs	With reference to IEC 62321-6: 2015	GC-MS	5
DIBP	With reference to IEC 62321-8: 2017	GC-MS	10
DBP	With reference to IEC 62321-8: 2017	GC-MS	50
BBP	With reference to IEC 62321-8: 2017	GC-MS	50
DEHP	With reference to IEC 62321-8: 2017	GC-MS	50

### 3 Test Result

Test results meet RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU limits. Test results were shown in table 3-5.

Table3 Test results of heavy metal elements

Test Items	Test Instruments	Unit	MQL	MCV	Test result
Pb	ICP-OES	mg/kg	2	1000	N.D.
Cd	ICP-OES	mg/kg	2	100	N.D.
Hg	ICP-OES	mg/kg	2	1000	N.D.
Cr <sup>6+</sup>	UV-VIS	mg/kg	1	1000	N.D.

Remark :1) "N.D." means "Not Detected".

2)"MCV" means "Maximum Concentration Value".

3) "mg/kg" means "ppm".

4) "MQL" means "Method Detection Lower Limit".

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Table 4 Test results of PBB, PBDE

Item	Unit	RoHS MCV	Result
MonoBB	mg/kg	/	N.D.
DiBB	mg/kg	/	N.D.
TriBB	mg/kg	/	N.D.
TetraBB	mg/kg	/	N.D.
PeataBB	mg/kg	/	N.D.
HexaBB	mg/kg	/	N.D.
HeptaBB	mg/kg	/	N.D.
OctaBB	mg/kg	/	N.D.
NonaBB	mg/kg	/	N.D.
DecaBB	mg/kg	/	N.D.
PBBs	mg/kg	1000	N.D.
MonoBDE	mg/kg	/	N.D.
DiBDE	mg/kg	/	N.D.
TriBDE	mg/kg	/	N.D.
TetraBDE	mg/kg	/	N.D.
PeataBDE	mg/kg	/	N.D.
HexaBDE	mg/kg	/	N.D.
HeptaBDE	mg/kg	/	N.D.
OctaBDE	mg/kg	/	N.D.
NonaBDE	mg/kg	/	N.D.
DecaBDE	mg/kg	/	N.D.
PBDEs	mg/kg	1000	N.D.

Remark :1) "N.D." means "Not Detected".

2) "mg/kg" means "ppm".

3) "MCV" means "Maximum Concentration Value".

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Table 5 Test results of BBP,DBP,DEHP,DIBP

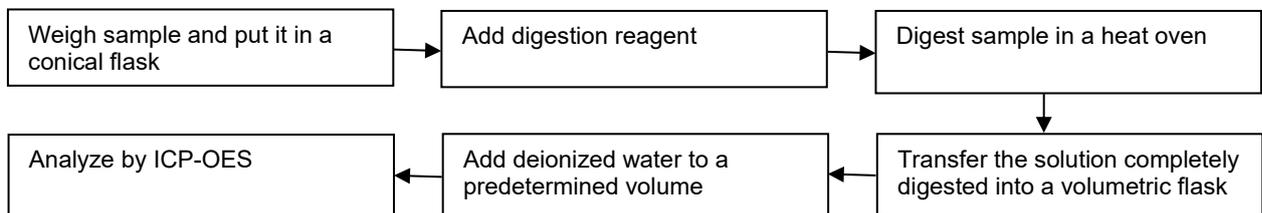
Item	Unit	RoHS MCV	Result
DIBP	mg/kg	1000	N.D.
DBP	mg/kg	1000	N.D.
BBP	mg/kg	1000	N.D.
DEHP	mg/kg	1000	N.D.

Remark : 1) "N.D." means "Not Detected".

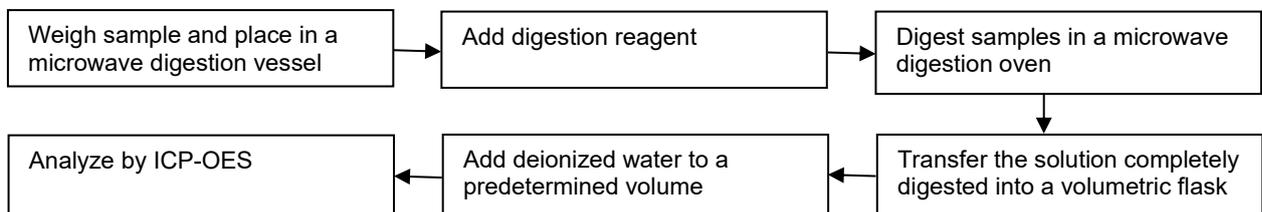
2) "mg/kg" means "ppm".

## 4. Test process

### 4.1 Determine Content of Cd/Pb (IEC 62321-5: 2013 Ed.1.0)



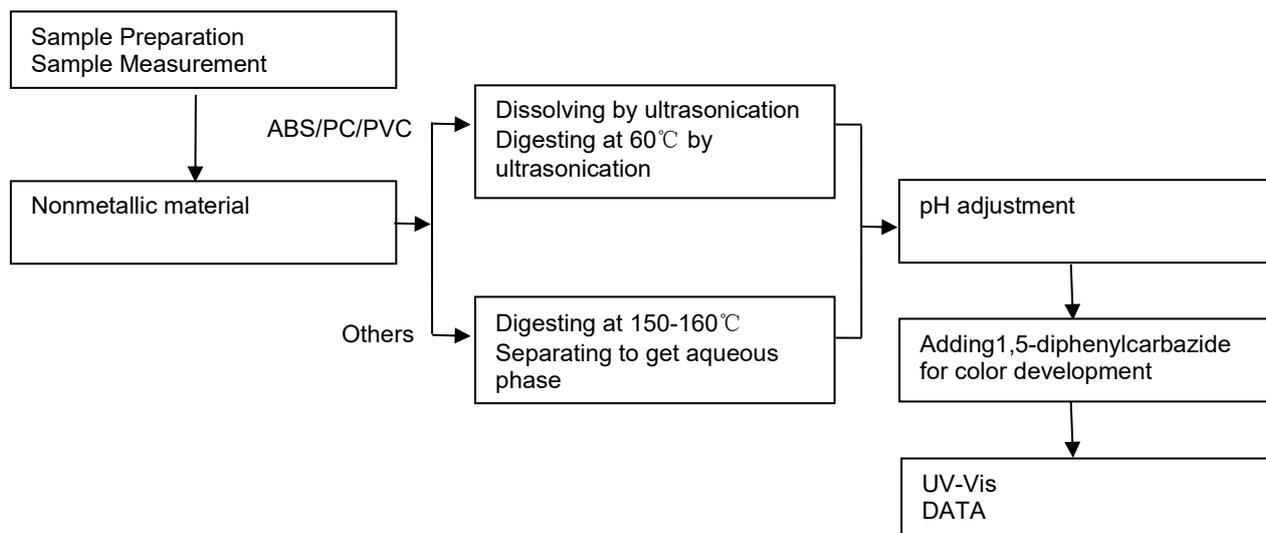
### 4.2 Determine Content of Hg (IEC 62321-4: 2013 Ed.1.0)



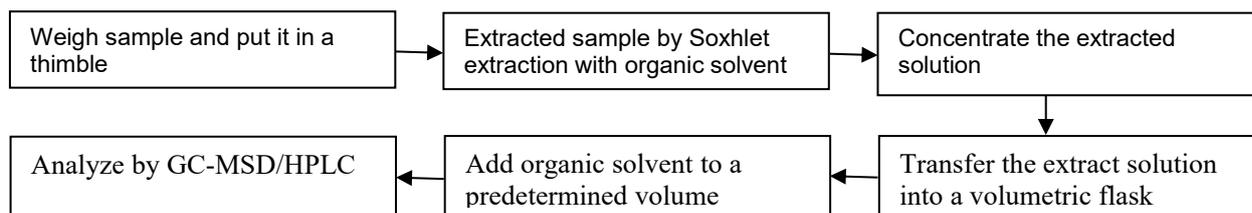
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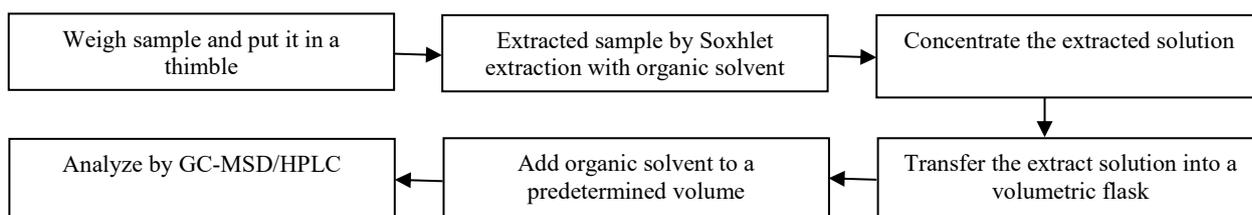
**4.3 Determine Content of CHROMIUM VI (Cr<sup>6+</sup>) ( IEC 62321-7-2: 2017)**



**4.4 Determine Content of PBBs, PBDEs (IEC 62321-6: 2015)**



**4.5 Determine Content of BBP,DBP,DEHP,DIBP (IEC 62321-8: 2017)**



---The End---

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