



RoHS Test Report

Applicant : Shantou Daigain Industrial Co., Ltd.
Address : B13-1-2 Block, Bonded Zone, Shantou, Guangdong, China
Manufacturer : Shantou Daigain Industrial Co., Ltd.
Address : B13-1-2 Block, Bonded Zone, Shantou, Guangdong, China

The following samples were submitted and identified on behalf of the client as

Sample Name : Tool bag
Model No. : JK-HL063
Brand Mark : N/A
Sample received Date : May. 06, 2025
Test Period : May. 06, 2025 - May. 13, 2025
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

CONCLUSION:

According to client's request to conduct below tests in the selected parts of the submitted sample:

TEST ITEM	RESULT
1. RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102	
-Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
-Di-(2-ethylhexyl) phthalate (DEHP), Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content	PASS

Tested by (signature) : Kelly Tang

Compiled by (name) : Hony Zhou

Approved by (signature) : Wendy Chen



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen Qiqing Technology Co., Ltd.

**** Version ****

Version No.	Date	Description
00	May.13, 2025	Original

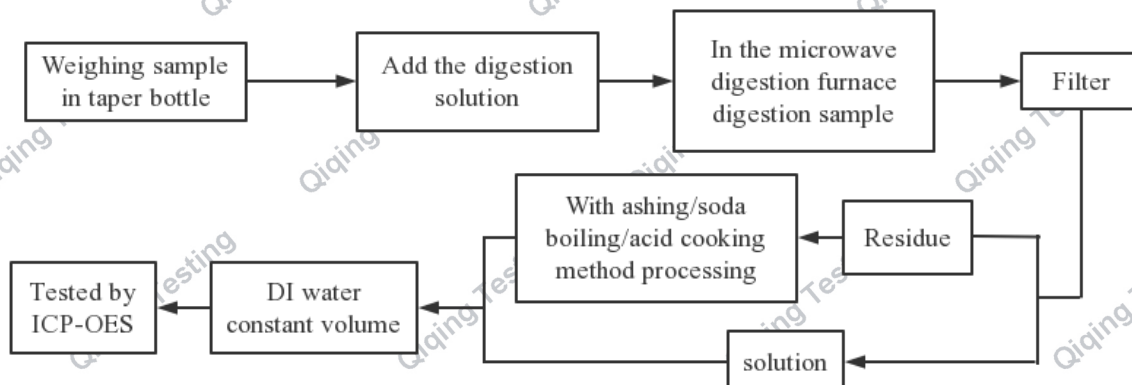
**1. Test Method(s):**

Testing item	Testing Method	Equipment
Screening analysis by XRF		
Lead (Pb) Cadmium (Cd) Mercury (Hg) Chromium (Cr) Bromine (Br)	IEC 62321-3-1:2013	ED-XRF
Chemical testing		
Lead (Pb)	IEC 62321-5-2013	ICP-OES
Cadmium (Cd)	IEC 62321-5-2013	ICP-OES
Mercury (Hg)	IEC 62321-4-2013+A1:2017	ICP-OES
Chromium (Cr VI) for plastic	IEC 62321-7-2:2017	UV-Vis
Chromium (Cr VI) for coating on metals	IEC 62321-7-1:2015	UV-Vis
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS
DEHP/DBP/BBP/ DIBP	IEC 62321-8:2017	GC-MS

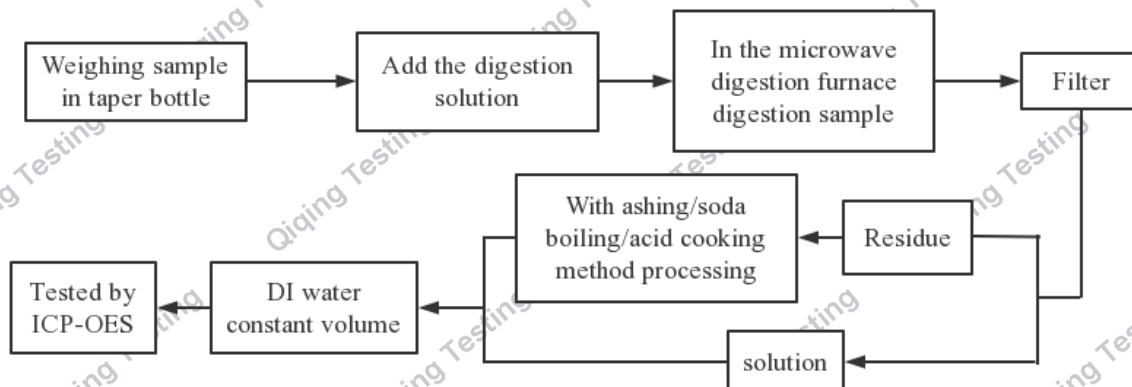


2. Test Flow:

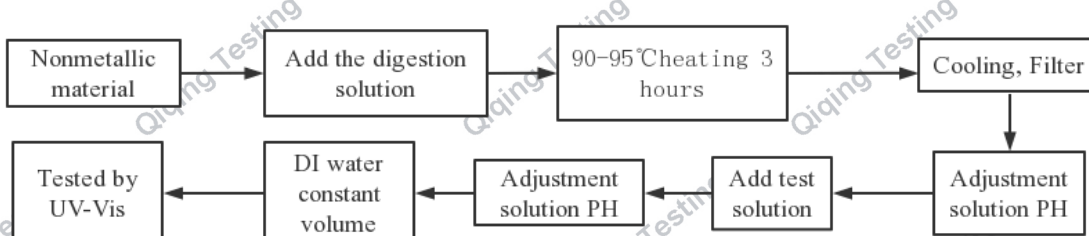
(1) 1. Lead (Pb), Cadmium (Cd)



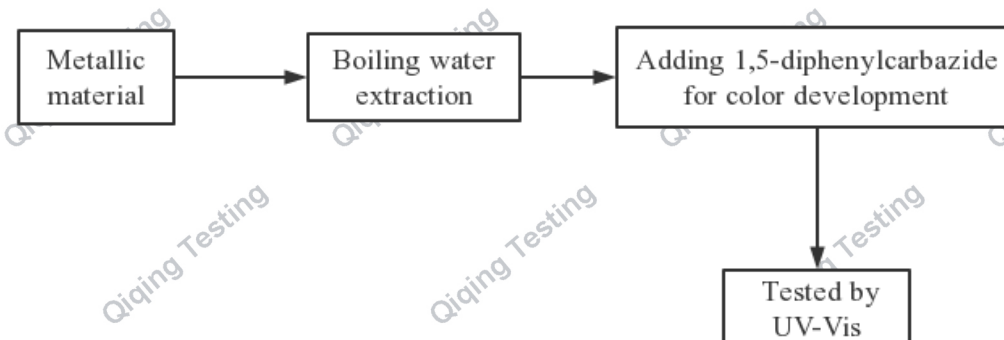
(2) Mercury (Hg)



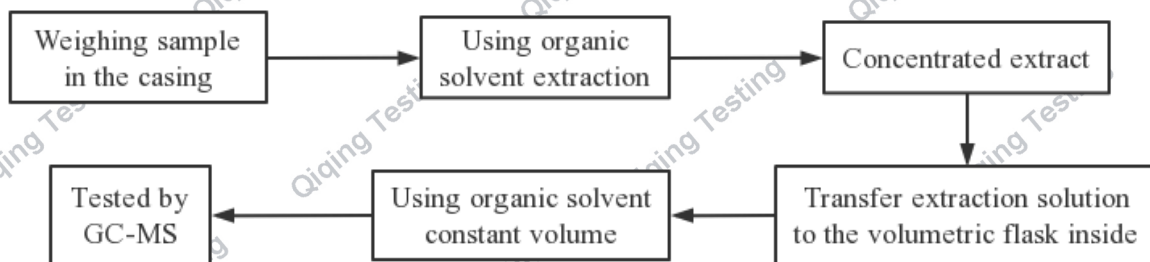
(3) Hexavalent Chromium (Cr VI) (Alkaline extraction)



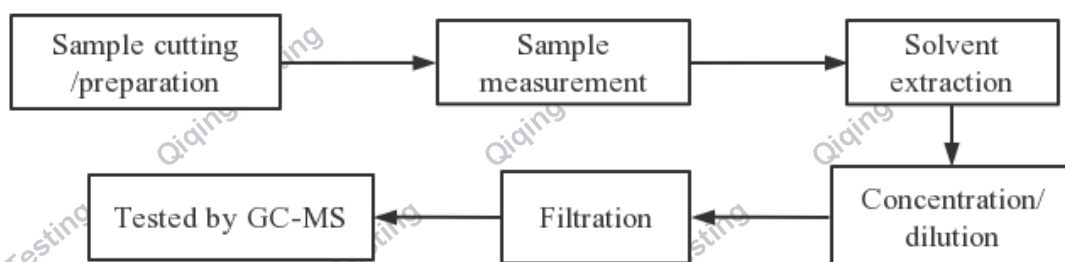
(4) Hexavalent Chromium (Cr VI) (Boiling water extraction)



(5) PBBs/ PBDEs



(6) DEHP/ BBP/ DBP/ DIBP



**3. Tested Sample/Part Description:**

Specimen No.	Component Description(s)	Style
01	Metal	-
02	Material	-
03	Metal hook	-
04	Plastic base	-

**4. Test Results:**

The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
01	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	Cr(Cr ⁶⁺)	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
02	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	Cr(Cr ⁶⁺)	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
03	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	Cr(Cr ⁶⁺)	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
04	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	Cr(Cr ⁶⁺)	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		

**Remark:**

- (1) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test items on restricted substances Cr(VI)
- (2) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit:mg/kg)

Element	Polymer Materials	Metal Materials	Composite Materials
Cd	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 50-3\sigma < D < 150+3\sigma \leq F$
Pb	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Hg	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Br	$P \leq 300-3\sigma < D$	----	$P \leq 250-3\sigma < D$
Cr	$P \leq 700-3\sigma < D$	$P \leq 700-3\sigma < D$	$P \leq 500-3\sigma < D$

(a) P=Below Limit, F=Over Limit, D=Inconclusive, LOD=Limit of Detection, ---=Not regulated.

(b) The XRF screening test for RoHS elements- the reading may be different to actual content in the sample be of non-uniformity composition

(3) Chemical Method

1. With reference to IEC 62321-5:2013, determination of Cadmium, Lead by ICP-OES.
2. With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.
3. With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by UV-Vis.
4. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
5. With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.

(4) (a) mg/kg=0.0001%, MDL=MDL=Method Detection Limit, (c) ND=Not Detected(<MDL), ---=Not Regulated

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI) for polymer and composite sample is 10 mg/kg

MDL of Cr(VI) for metal sample is 0.10ug/cm²

(c) ▼=Metal sample

a. The sample is negative for Cr⁶⁺ - the Cr⁶⁺ concentration is below the limit 0.10ug/cm². The coating is considered a non-Cr⁶⁺ based coating.

b. The sample positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr⁶⁺.

c. The result between 0.10ug/cm² and 0.13ug/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.

EUT PHOTOGRAPHS



Figure 1

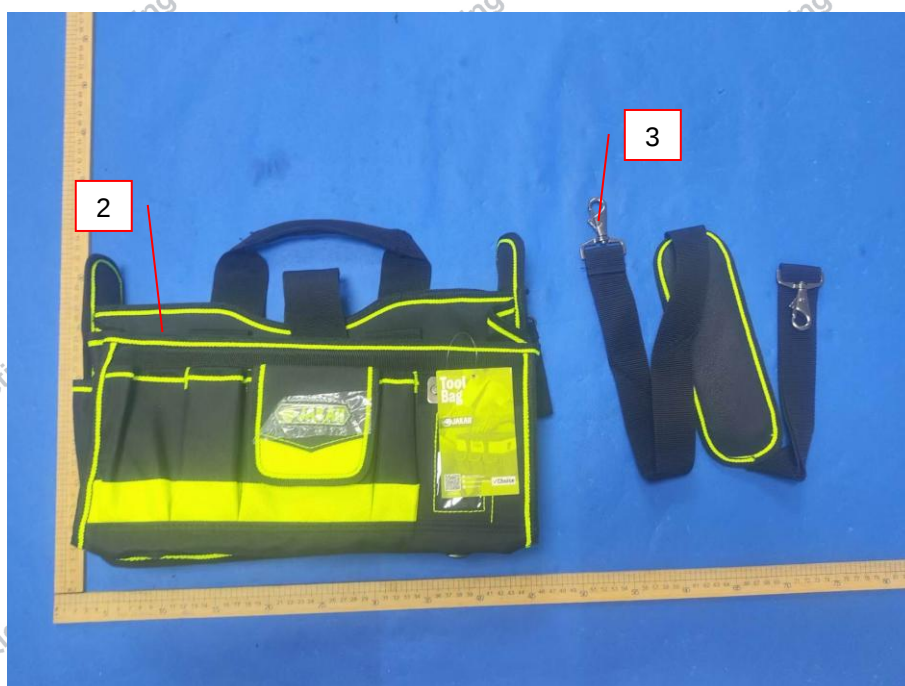


Figure 2



Figure 3



Figure 4



Figure 5

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