TEST REPORT

Applicant	**Shenzhen Apex Artcrafts Co., Ltd**
Address	**201, Tonglixing Industrial Plant, Building 3, No. 8 Lanzhu East Road, Zhukeng Community, Longtian Street, Pingshan District,Shenzhen**
Manufacturer's name	Shenzhen Apex Artcrafts Co., Ltd
Address	201, Tonglixing Industrial Plant, Building 3, No. 8 Lanzhu East Road, Zhukeng Community, Longtian Street, Pingshan District,Shenzhen
Sample Description	Acrylic display rack
Series Models	A-3E0210
Trade Mark	/
Sample Received Date	Sept.11,2024
Test Period	Sept.11,2024 To Sept.23,2024
Test Method	Please refer to next page(s).

Result summary

Test(s) Requested By Applicant:	**Conclusion**
- Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863and amending Annex (EU)2017/2102	PASS

Name and address of the testing laboratory:

Guangdong Zhonghan Testing Technology Co., Ltd.
Room 104, Building 1, Yibaolai Industrial Park,
Qiaotou Community, Fuhai Street, Bao'an
District, Shenzhen, Guangdong, China

Date of Test.....: Sept.11,2024 - Sept.23,2024

Approved by (name + signature).....: Levi Lee



Report Record			
Report No.	**Issue Date**	**Description**	**Approved**
ZHT-240911007R	Sept.23,2024	Original	valid

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 Results:

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
1	Black coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	
2	White plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	
3	Light blue coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
4	Red coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	
5	Green coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	
6	Dark blue coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	

Part No.	Sample Description	Test item	XRF Result	Chemical Test (mg/kg)	Conclusion
7	Light green coating	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	
8	Silver metal	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	--	--	
		PBDEs		--	
		DEHP	--	--	
		DBP	--	--	
		BBP	--	--	
		DIBP	--	--	
9	Transparent plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		$Cr(Cr^{6+})$	BL	--	
		PBBs	BL	--	
		PBDEs		--	
		DEHP	--	N.D.	
		DBP	--	N.D.	
		BBP	--	N.D.	
		DIBP	--	N.D.	

Note： 1. mg/kg= ppm
2. N.D.= No Detection(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5.BL= Below Limit
6.IN = Further chemical test will be conducted when the screening result inconclusive
*=According to the declaration from the client, Lead (Pb) in the sample are exempted by EU RoHS Directive 2011/65/EU based on ANNEX III 6(c): Copper alloy containing no more than 4% lead by weigh

Remark:

1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by XRF 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 IEC 62321-3-1:2013 (unit: mg/kg).

Element	Polymers	Metals	Composite Material
Cd	BL≤ (70-3σ)< X <(130+3σ)≤ OL	BL≤ (70-3σ)< X <(130+3σ)≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (500-3σ)< X <(1500+3σ)≤OL
Hg	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (700-3σ)< X <(1300+3σ)≤OL	BL≤ (500-3σ)< X <(1500+3σ)≤OL
Cr	BL ≤ (700-3σ) < X	BL ≤ (700-3σ) < X	BL ≤ (500-3σ) < X
Br	BL ≤ (300-3σ) < X	--	BL ≤ (250-3σ) < X

(c) OL=Over Limit, BL=Below Limit, X=inconclusive, LOD=Limit of Detection, NA=not applicable, --= No Testing

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

2) (a) mg/kg=ppm=0.0001%, N.D.=not detected (＜MDL)

(b) Unit and Method Detection Limit(MDL) in wet chemical test

Test Items	Unit	MDL	Limit
Pb	mg/kg	10	1000
Cd	mg/kg	10	100
Hg	mg/kg	10	1000
DBP	mg/kg	50	1000
BBP	mg/kg	50	1000
DEHP	mg/kg	50	1000
DIBP	mg/kg	50	1000

The MDL for single compound of PBBs &PBDEs is 20mg/kg, MDL of Cr^{6+} for metal sample is 0.10μg/cm². and MDL of Cr^{6+} for polymer & composite sample is 8 mg/kg.

(c) Metal sample:

-The sample is positive for Cr^{6+} if the Cr^{6+} concentration is greater than 0.13 μg/cm². The sample coating is considered to contain Cr^{6+}.

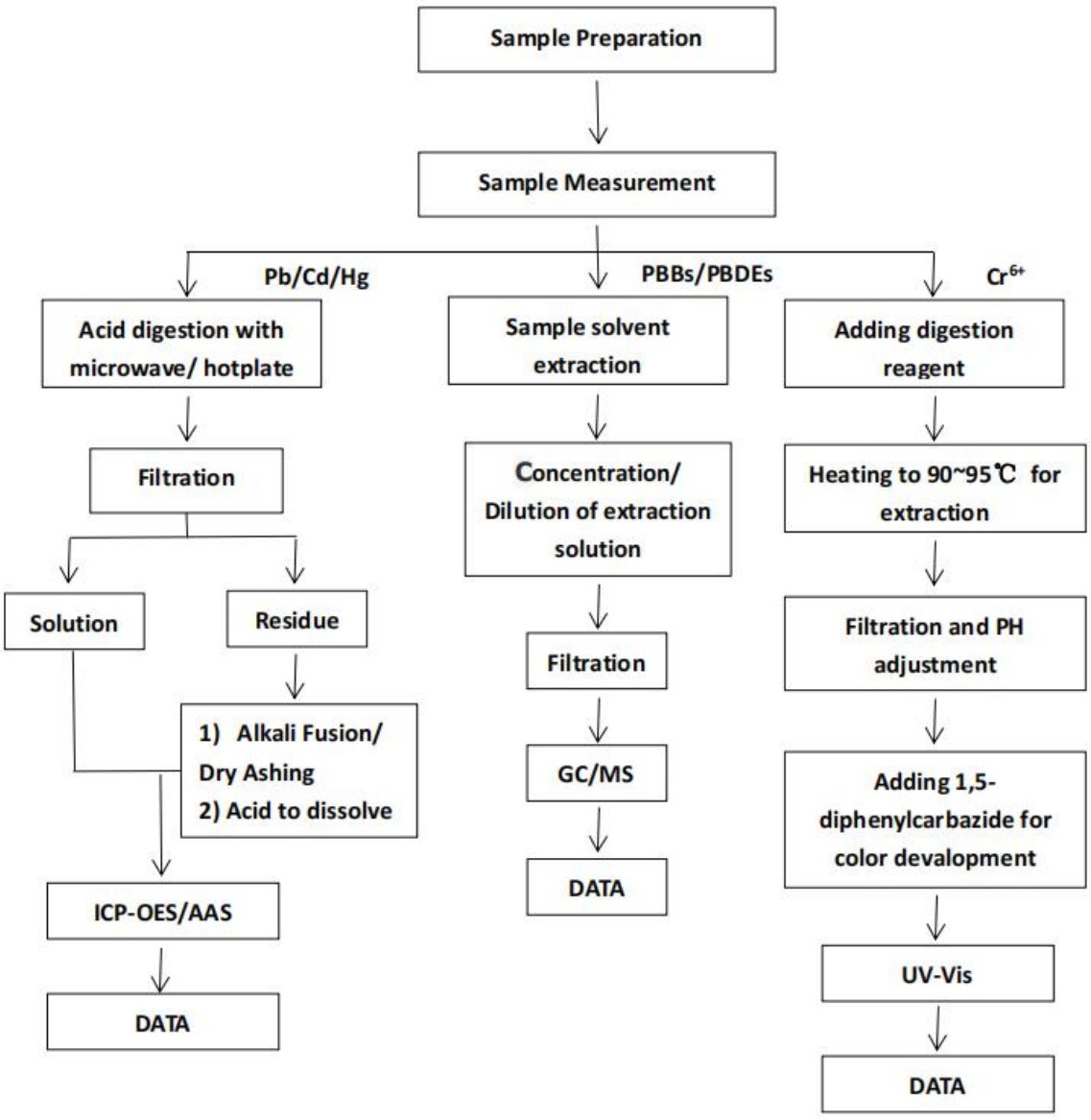
-The sample is negative for Cr^{6+} if Cr^{6+} is ND (concentration less than 0.10 μg/cm²). The coating is considered a non- Cr^{6+} based coating

-The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination

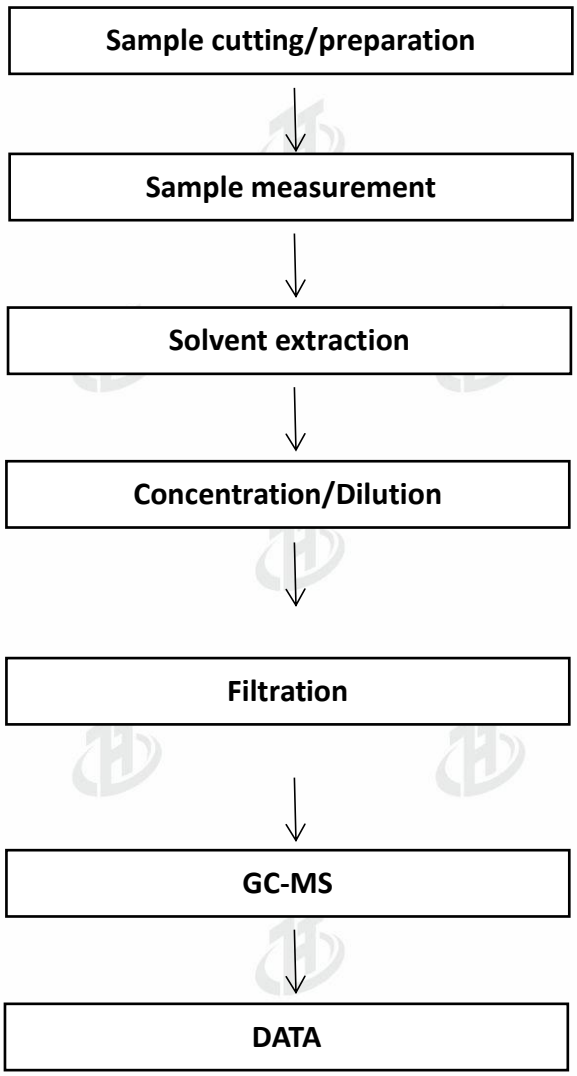
Information on storage conditions and production date of the tested sample is unavailable and thus Cr^{6+} results represent status of the sample at the time of testing.

3) As specified by client to test the specified materials only.

ATTACHMENT: Cd/Pb/Hg/Cr6+/PBBs&PBDEs Flow Chart



ATTACHMENT: Phthalate Testing Flow Chart

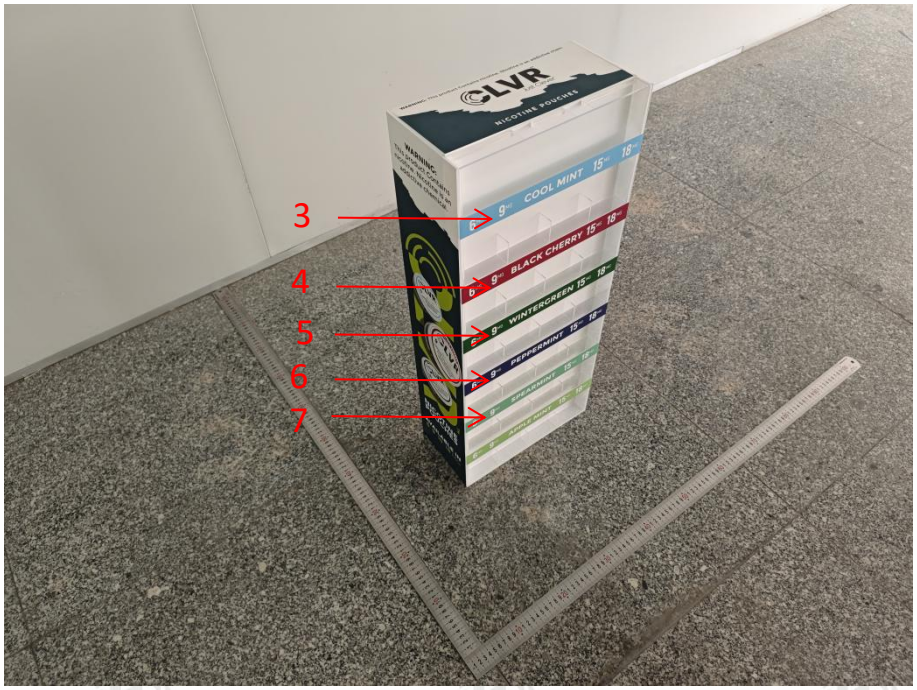


Attachment : Photo document.

EUT Photo 1



EUT Photo 2



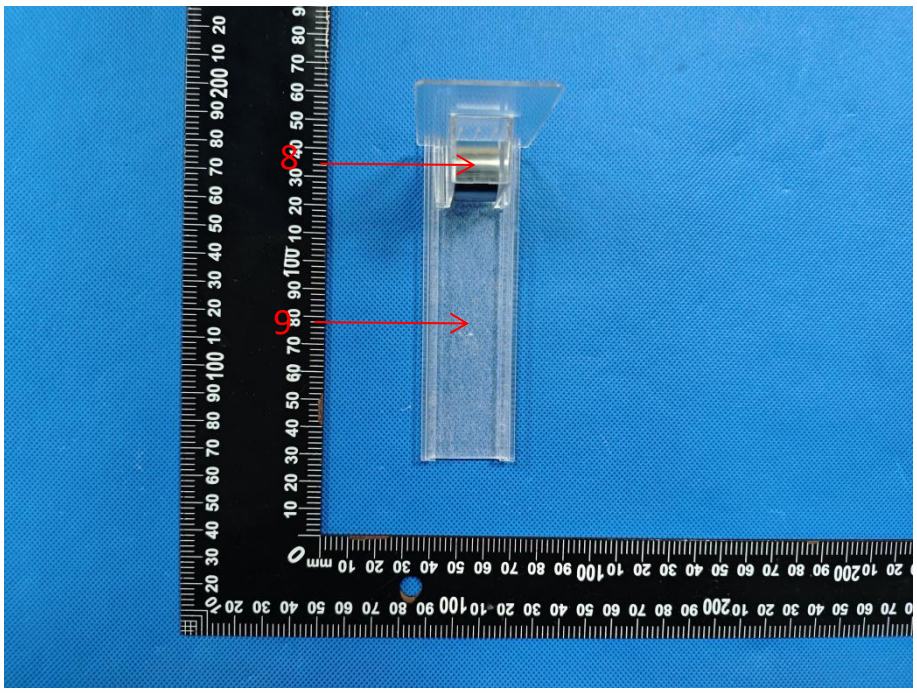
EUT Photo 3



EUT Photo 4



EUT Photo 5



End of report