Test Report

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Report No : ASTL260700274ER

Applicant	:	Liaoyang Bomigo Foreign Trade Service Co., Ltd
Address	:	Room 101, No 44, Binhe Road, Baita District, Liaoyang, Liaoning
Manufacturer	:	Liaoyang Bomigo Foreign Trade Service Co., Ltd
Address	:	Room 101, No 44, Binhe Road, Baita District, Liaoyang, Liaoning

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name	:	HEATING MAT
Product Model	:	Bo-5010 Mig
Additional Product Model.	:	Bo-580,Bo-147,Bo-0854,Bo-195,Bo-7585,Bo-7585,Bo-6015,Bo-8019,Bo-236, Bo-319,Bo-442,Bo-627,Bo-913,Bo-2749,Bo-169,Bo-358,Bo-4711,Bo-663,Bo-824, Bo-135,Bo-297,Bo-516,Bo-7325,Bo-849,Bo-361,Bo-428,Bo-173,Bo-694
Sample Received Date	:	July 07,2026
Testing Period	:	July 07,2026 To July 13,2026
Report Date	:	July 13,2026
Test Requested	:	1. As specified by client ,to screen Lead(Pb),Cadmium(Cd),Mercury(Hg), Chromium(Cr)and Bromine(Br)in the submitted sample(s)by XRF. 2. XRF screening was performed for Lead (Pb), Cadmium (Cd), Mercury (Hg), total Chromium (Cr) and total Bromine (Br) according to IEC 62321-3-1:2026. Where XRF screening results exceed the applicable screening limits, wet chemical confirmation shall be performed for relevant restricted substances. Phthalates, including DEHP, BBP, DBP and DIBP, were tested by GC-MS according to IEC 62321-8:2017.
Test Method	:	Please refer to next page(s).
Test Result	:	Please refer to next page(s).
Test Conclusion	:	The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 and (EU)2017/2102 amending Annex II to Directive 2011/65/EU.
Laboratory Authorization	:	ISO/IEC 17025 certified testing laboratory approved by an ILAC-MRA certificate Number is USA PJLA L26-440.

Signed for and on Behalf of ASTL:

Lily Zhang

Lily Zhang
Authorization Issuer

ASTL Test (Dongguan) Co., Ltd. ASTL Approve

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1.Pb, Cd, Cr(VI), Hg, PBBs&PBDEs
Test Method:
A.Disassembly, disjointment and mechanical sample preparation
—Ref. to IEC 62321-2:2021, Disassembly, disjointment and mechanical sample preparation.
B.With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
(1)Screening – Lead, mercury, cadmium, total chromium and total bromine
—Ref. to IEC 62321-3-1:2026, Screening for Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry.
(2)Wet chemical test method

Test Item(s)	Test Method	Test Equipment	Unit	RL	Limit
Pb	IEC62321-5:2013	ICP-OES	mg/kg	10	1000
Cd	IEC62321-5:2013	ICP-OES	mg/kg	10	100
Hg	IEC 62321-4:2013/AMD1:2017	ICP-OES	mg/kg	10	1000
Cr(VI) (Metal)	IEC62321-7-1:2015	UV-Vis	mg/kg	0.10 ($\mu g/cm^2$)	1000
Cr(VI) (Nonmetal)	IEC62321-7-2:2017	UV-Vis	mg/kg	10	1000
PBBs	IEC62321-6:2015	GC-MS	mg/kg	5	1000
PBDEs	IEC62321-6:2015	GC-MS	mg/kg	5	1000

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Test result(s):

Material No.	Sample Description	Results of XRF					Chemical confirmation results (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1.	Silver metal with gold plating	BL	BL	BL	BL	---	---	Pass
2.	Black plastic	BL	BL	BL	BL	BL	---	Pass
3.	Black soft plastic	BL	BL	BL	BL	BL	---	Pass

Remark:

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(VI).

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

c. Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-VIS for Cr(VI) and GC-MS (for PBBs/PBDEs) is recommended to be performed if the concentration exceeds the below warming value according to IEC 62321-3-1:2026.

XRF Screening limits for different matrices :

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	BL≤290<X
Metallic	BL≤60<X<140≤OL	BL≤640<X	BL≤670<X<1330≤OL	BL≤660<X<1340≤OL	---
Composite materials	BL≤40<X<160≤OL	BL≤440<X	BL≤470<X<1530≤OL	BL≤460<X<1540≤OL	BL≤240<X

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Note：

-BL= Below Limit

-OL=Over Limit

-X = inconclusive, the region where need further chemical testing by ICP-OES (for Pb, Cd, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs).

- --- = Not Applicable

- mg/kg=milligrams per kilogram

- N.D.=Not Detected(<RL)

- RL= Reporting Limit.

- Negative=Absence of Cr(VI) coating, the detected concentration in boiling water extraction solution is less than 0.10μg/cm2.

Positive = Presence of Cr(VI) coating, the detected concentration in boiling water extraction solution is greater than 0.13 μg/cm².

- The result of Cr(VI) coating between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive.

-unavoidable coating variations may influence the determination.

- *=According to 2011/65/EU Annex,point *Lead as an alloying element is steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a copper alloy, containing up to 4% lead by weight can be exempted.

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2. Phthalates—DBP, BBP, DEHP & DIBP

Test Item(s)	Test Method	Test Equipment	Unit	RL	Limit
Dibutyl Phthalate(DBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Benzylbutyl Phthalate (BBP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Di-(2-ethylhexyl)Phthalate (DEHP)	IEC62321-8:2017	GC-MS	mg/kg	30	1000
Diisobutyl phthalate(DIBP) Diisobutyl phthalate	IEC62321-8:2017	GC-MS	mg/kg	30	1000

Test result(s):

Part No.	Test Item (mg/kg)				Conclusion
	DBP	BBP	DEHP	DIBP	
2	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	PASS

Note： 1.mg/kg=milligrams per kilogram

2.N.D.=Not Detected(<RL)

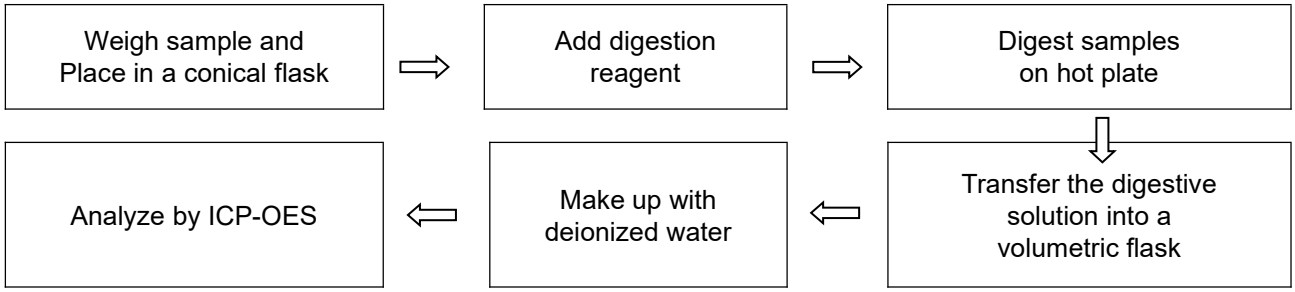
3.RL = Report Limit

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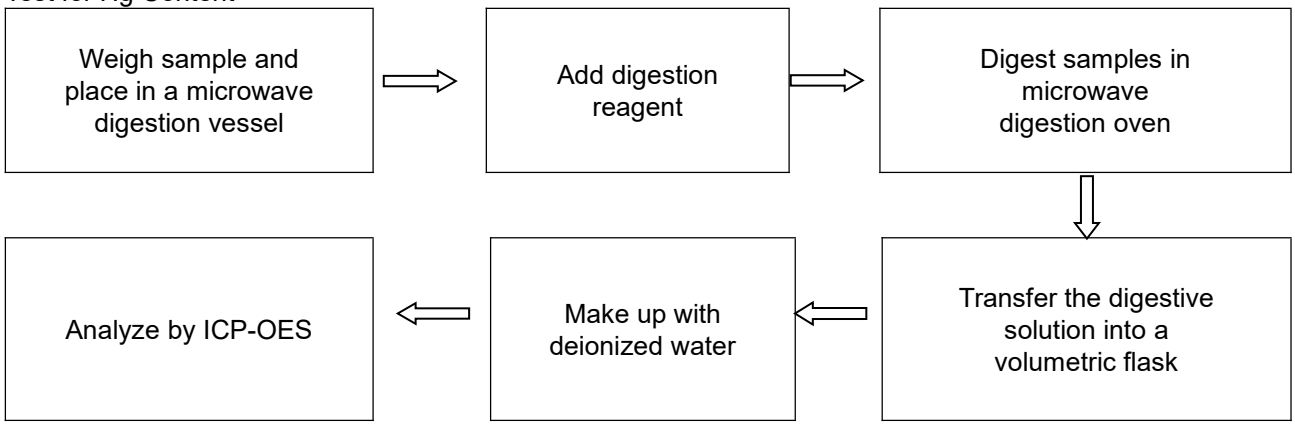
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Chemical Test Process:

1.Test for Cd/Pb Content

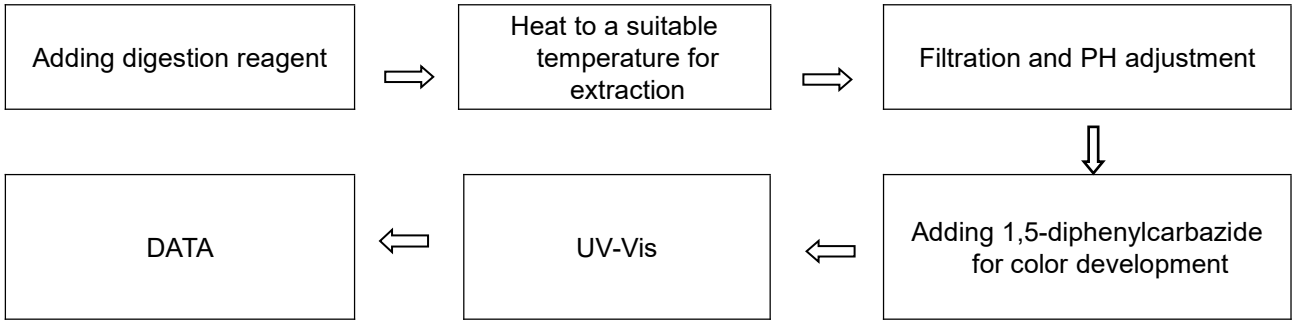


2. Test for Hg Content



3. Test for Chromium (VI) Content

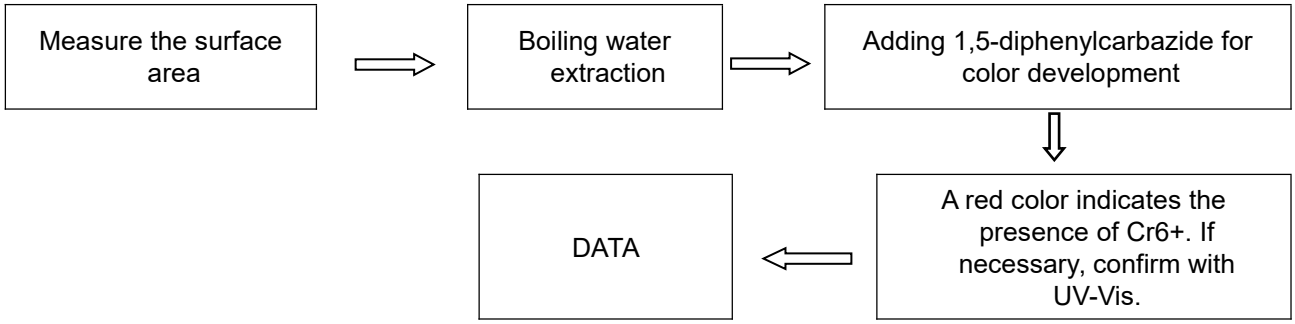
Nonmetal material



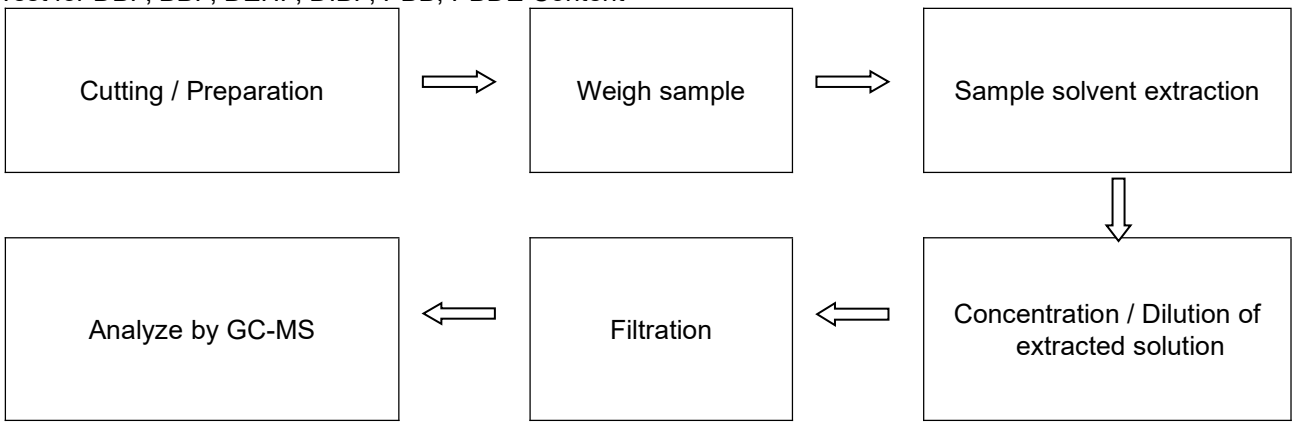
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Metal material



4.Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content

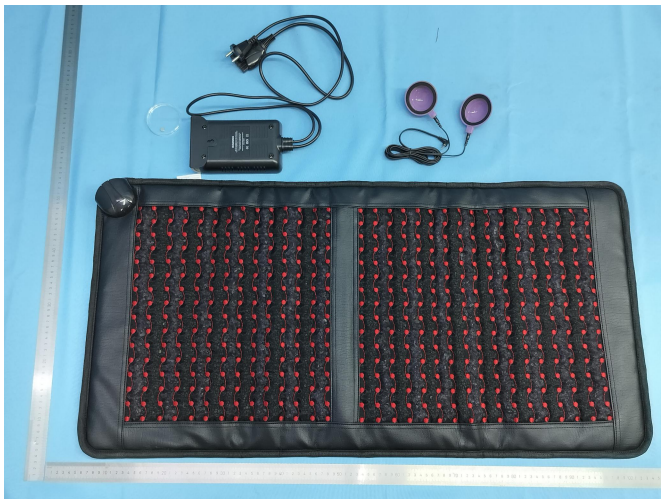


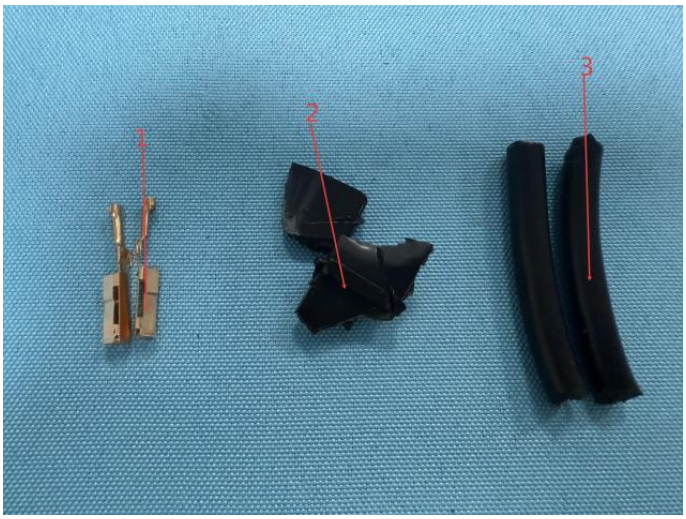
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Photo of Sample:







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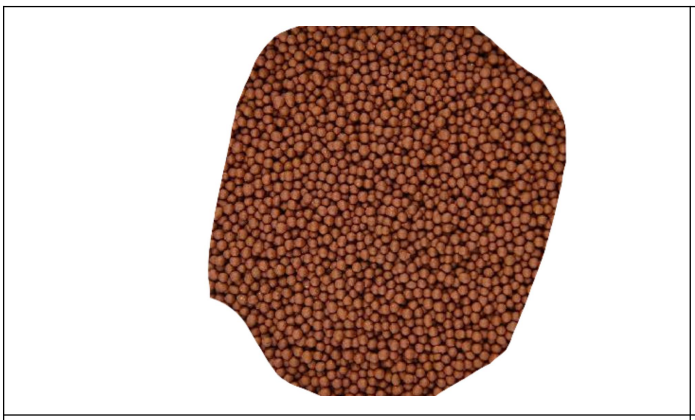
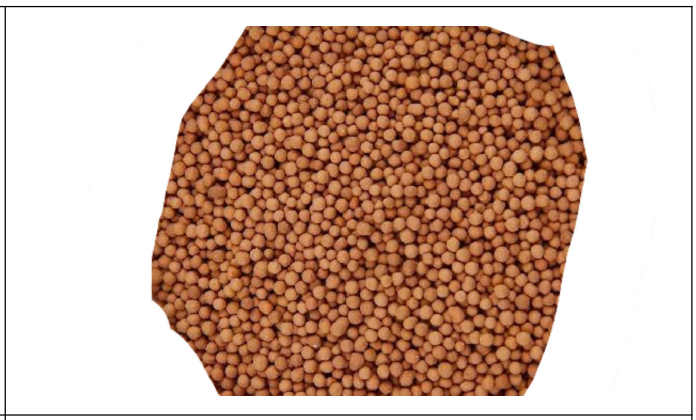
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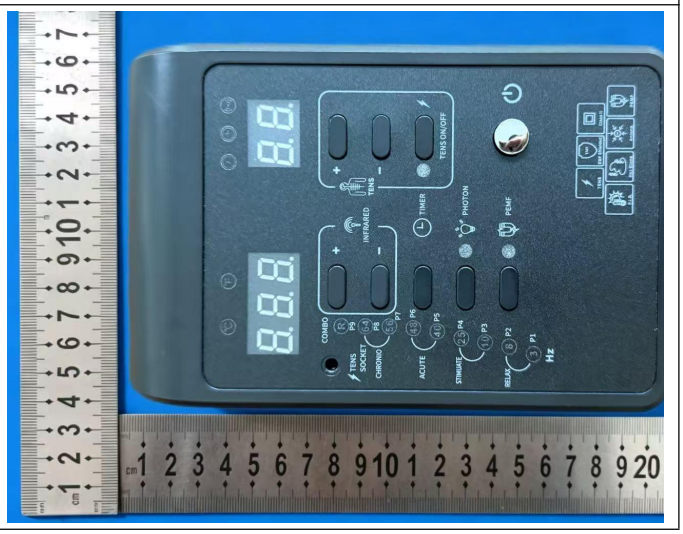
	
	
	

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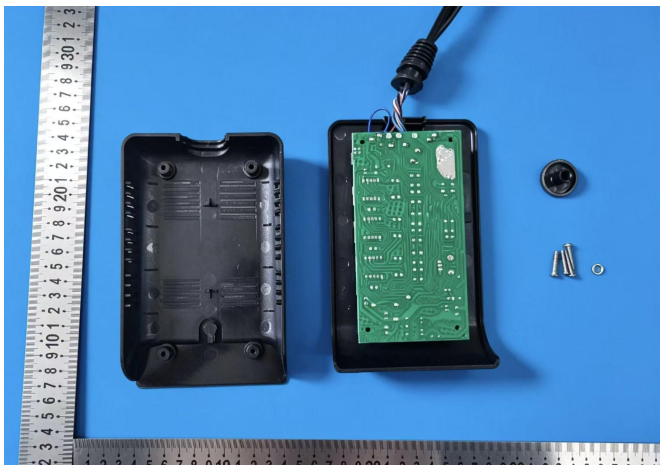



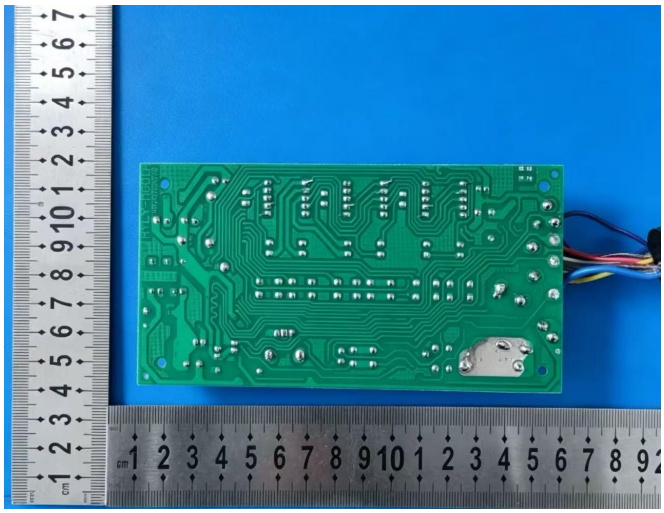




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