
Test Report

Report No. : AGC05443221001-001

SAMPLE NAME : Bamboo twist type ball pen
MODEL NAME : MO6821
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Nov.09, 2022

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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,
Hong Kong.
Test Site : 2,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Bamboo twist type ball pen
Model : MO6821
Country of Origin : CHINA
Country of Destination : EUROPE
Vendor code : 104901
Sample Received Date : Oct.09, 2022
Testing Period : Oct.09, 2022 to Nov.09, 2022

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Nov.09, 2022	Valid	Initial release

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Test Requested:**Conclusion**

- | | |
|--|-------------|
| 1. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 4. As specified by client, to determine the Nickel Release in the submitted sample(s) with reference to entry 27, Annex XVII of the REACH Regulation (EC) No 1907/2006 . | Pass |
| 5. As specified by client, to determine the Formaldehyde Release content in the submitted sample(s). | Pass |

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Test Result(s):

1. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0;68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-4 [△]	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

2. Test Result of Cadmium(Cd) Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-3	N.D.	Conformity
1-4 [△]	N.D.	Conformity
1-6	N.D.	Conformity

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3. Test Result of Lead(Pb) Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4 [△]	47	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity

4. Test Result of Nickel Release Content

Test Item	Nickel Release		
Limit(μg/cm²/week)	Type of sample	Pass	Fail
	Article with Nickel release limit of 0.5μg/cm ² /week (Non-body piercing)	<0.88	≥0.88
	Article with Nickel release limit of 0.2μg/cm ² /week (Body piercing)	<0.35	≥0.35
MDL(μg/cm²/week)	0.05		
Test Method/ Instrument	EN 12472:2020 EN 1811:2011+A1:2015 ICP-OES		

Test point		Test result (μg/cm ² /week)	Conclusion
		Nickel Release	
1-2	A	N.D.	Conformity
	B	N.D.	
	C	N.D.	

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6. Test Result of Formaldehyde Release

Test Item(s)	Formaldehyde Release
Limit (Client's Requirement) (mg/kg)	80
MDL (mg/kg)	1
Test Method/ Equipment	EN717-3:1996/ UV-Vis

Test point	Test result (mg/kg)	Conclusion
	Formaldehyde Release	
1-1	N.D.	Conformity

Note:

mg/kg =milligram per kilogram

N.D.=Not Detected(less than method detection limit)

MDL = Method Detection Limit

 $\mu\text{g}/\text{cm}^2/\text{week}$ = microgram per square centimeter per week

%= percentage

Remark:

- Δ =As specified by client, the submitted samples were mixed to test.
- As specified by client, only test the designated sample.

Test result of Nickel Release Content on specimen No.1-2 was resubmitted on Oct.28, 2022.

Test Point Description

Test point	Test point description
1-1	Bamboo barrel
1-2	Iron clip
1-3	Silver plating
1-4	Plastic pen head+ring
1-5	Spring
1-6	Inside white plastic pen barrel

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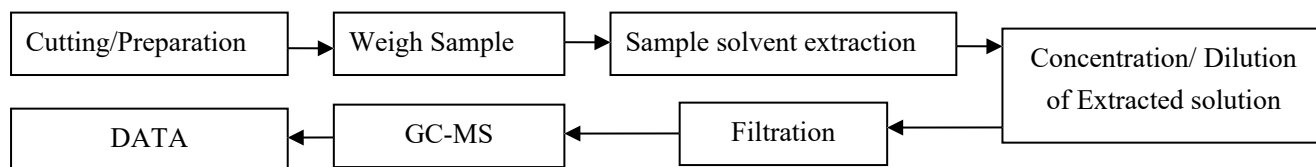
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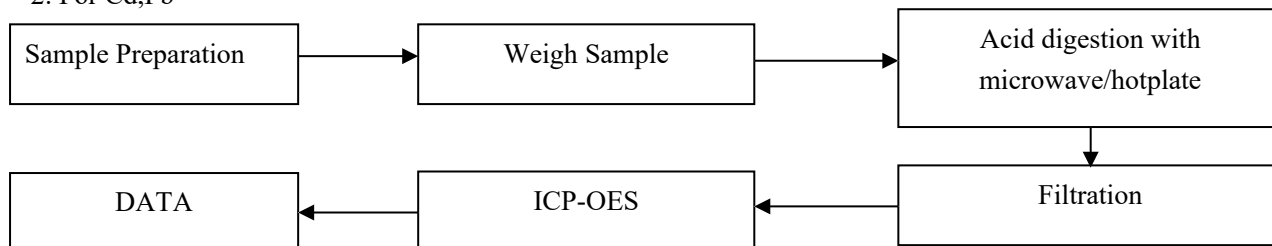
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Test Flow Chart

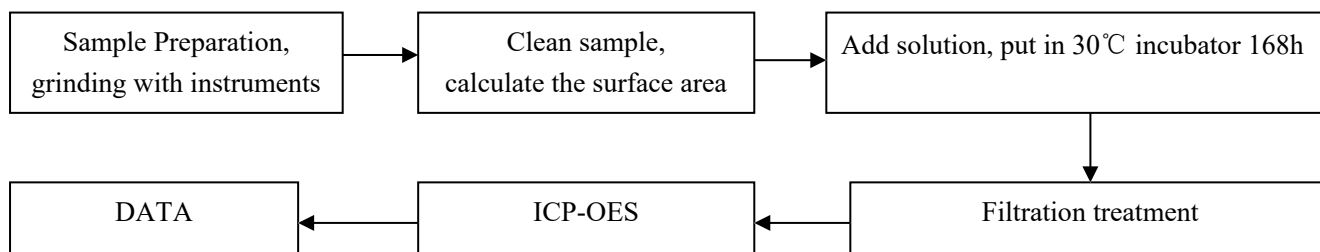
1. For Phthalates



2. For Cd,Pb



3. For Nickel Release



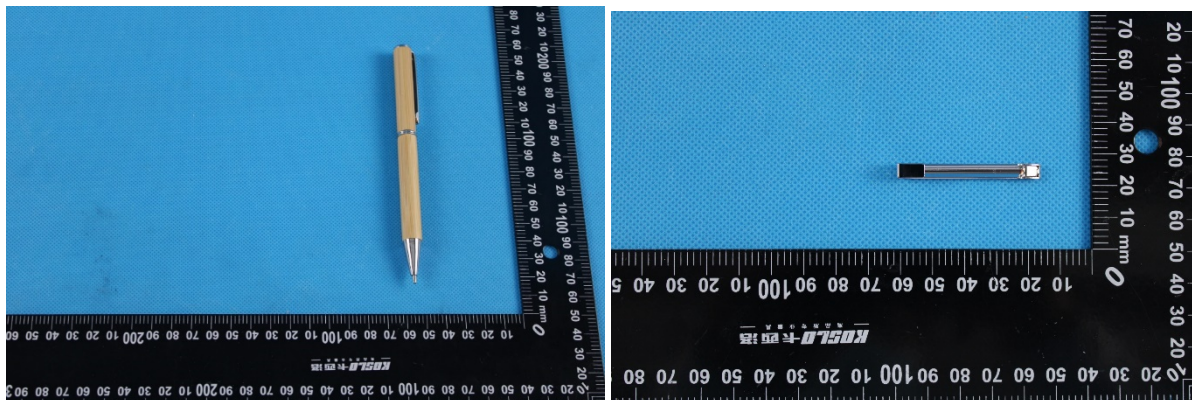
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The photo of the sample



AGC05443221001-001

AGC authenticate the photo only on original report

*** End of Report ***

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