

Test report

23A-011561(A1)



Verify Report

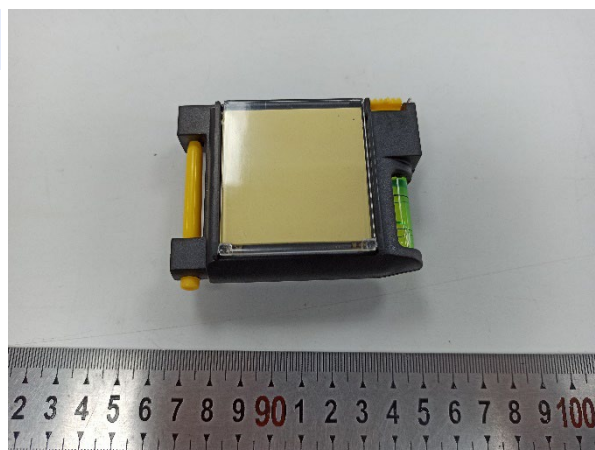
Overall result

PASS

Please refer to the following pages for test result summary and notes.

Client information

Client: Mid Ocean Brands B.V.
Address: 7/F., Kings Tower, 111 King Lam Street,
Cheung Sha Wan, Kowloon, Hong Kong



Sample information

Description: FLEXIBLE STEEL RULE WITH LEVELLER,BALL PEN AND MEMOPAD	Labeled age grade: -
Supplier: 118518	Tested age grade: -
Country of origin: -	Materials: Steel, ABS
Country of distribution: Europe	Buyer: Mid Ocean Brands B.V.
Model #: KC2182	
Quantity submitted: 4 pcs	

General information

Sample receipt date: 15-Sep-2023
Testing period: 15-Sep-2023 to 27-Sep-2023,
08-Oct-2023 to 18-Oct-2023

Report date: 18-Oct-2023

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Jeremy Xu

Chemical Laboratory Supervisor



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyan Subdistrict, Binjiang District, Hangzhou, China

support@qima.com • ©QIMA Limited
CS-HZ-RE001 ver1.0
Page 1 of 11



Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	PASS



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyan Subdistrict, Binjiang District, Hangzhou, China



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	19	---	---	---	---	500
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyan Subdistrict, Binjiang District, Hangzhou, China



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	3	4	6+8	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	19	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7	9+10+12	11	13	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	64	ND	---	500
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

By client's request, selected component was conducted for this section.



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyuan Subdistrict, Binjiang District, Hangzhou, China



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	1000
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyuan Subdistrict, Binjiang District, Hangzhou, China



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6+8	9+10+12	13	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	---	---	100
Conclusion	PASS	PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyan Subdistrict, Binjiang District, Hangzhou, China

support@qima.com • ©QIMA Limited
CS-HZ-RE001 ver1.0
Page 6 of 11



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release

Test Method: EN 12472:2020&EN 1811:2011+A1:2015 ¹/ EN 1811:2011+A1:2015²
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Direct and Prolonged Contact with Skin

Specimen No.	1-1			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	Limit
Size of Tested Sample Area (cm ²)	10	10	10	
Volume of Test solution Used (mL)	10	10	10	
Nickel result (µg/cm ² /week) ¹	ND	ND	ND	0.5*
Nickel result (µg/cm ² /week) ²	ND	ND	ND	
Conclusion	PASS			

Specimen No.	2			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	Limit
Size of Tested Sample Area (cm ²)	2	2	2	
Volume of Test solution Used (mL)	2	2	2	
Nickel result (µg/cm ² /week) ¹	ND	ND	ND	0.5*
Nickel result (µg/cm ² /week) ²	ND	ND	ND	
Conclusion	PASS			

Note:

cm² = Square centimeters

µg/cm²/week = Micrograms per square centimeter per week

mL = Millilitres

LT = Less than

ND = Not detected (Reporting Limit = 0.1 µg/cm²/week)

*According to EN 1811:2011+A1:2015 Section 9.2.2, the compliance shall be evaluated with the combined measurement uncertainty, an article is:

Pass and permitted to be placed on the market when the nickel release value is less than 0.88 µg/cm²/week;

Fail when the nickel release value is greater than or equal to 0.88 µg/cm²/week.

Remark:

By client's request, selected component was conducted for this section.





Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		6+8	9+10+12	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	---	---	1
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	---	---	1
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	---	---	1
Chrysene (CHR)	218-01-9	ND	ND	---	---	1
Benzo [b] fluoranthene (BbFA)	205-99-2	ND	ND	---	---	1
Benzo [j] fluoranthene (BjFA)	205-82-3	ND	ND	---	---	1
Benzo [k] fluoranthene (BkFA)	207-08-9	ND	ND	---	---	1
Dibenzo [a,h] anthracene (DBA _h A)	53-70-3	ND	ND	---	---	1
Conclusion		PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



Verify Report



QIMA (Hangzhou) Testing Co., Ltd.
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,
Puyan Subdistrict, Binjiang District, Hangzhou, China

support@qima.com • ©QIMA Limited
CS-HZ-RE001 ver1.0
Page 8 of 11



Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		5	6+8	9+10+12	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	1000
Sum of DBP, BBP, DEHP, DIBP		ND	ND	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	
Sum of DnOP, DINP, DIDP		ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



Verify Report





Specimen description

Specimen #	Specimen description	Location
1	Silvery metal	Clip
1-1	Silvery metal	Clip
2	Silvery metal	Head of tape measure
3	Silvery metal	Head rivet of tape measure
4	Dull silvery metal	Tape measure
5	Multi-color coating	Tape measure
6	Transparent plastic	Cover of sticky note
7	Silvery metal	Base screw of sticky note
8	Black plastic	Main body
9	Yellow plastic	Fixed buckle of tape measure
10	Yellow plastic	Barrel
11	Silvery metal	Nib
12	Transparent plastic	Gradienter
13	Lime liquid	Gradienter inner



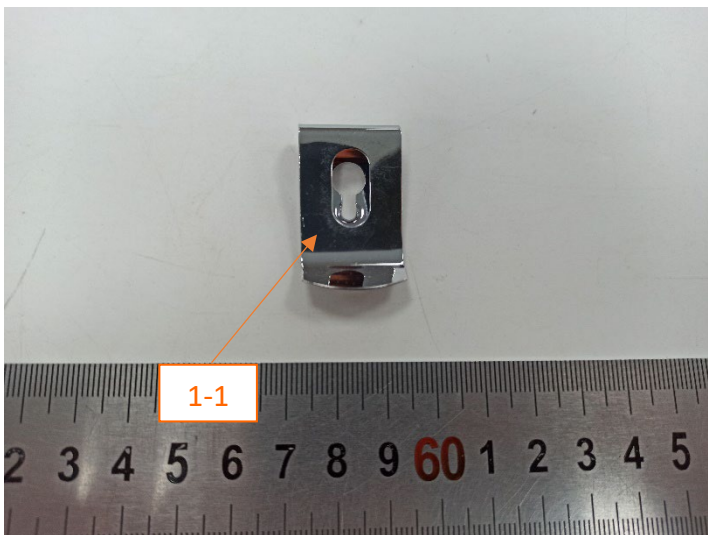
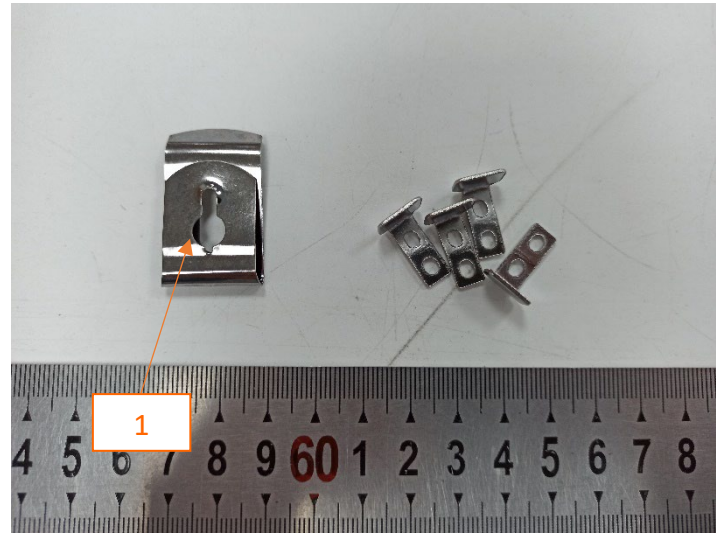
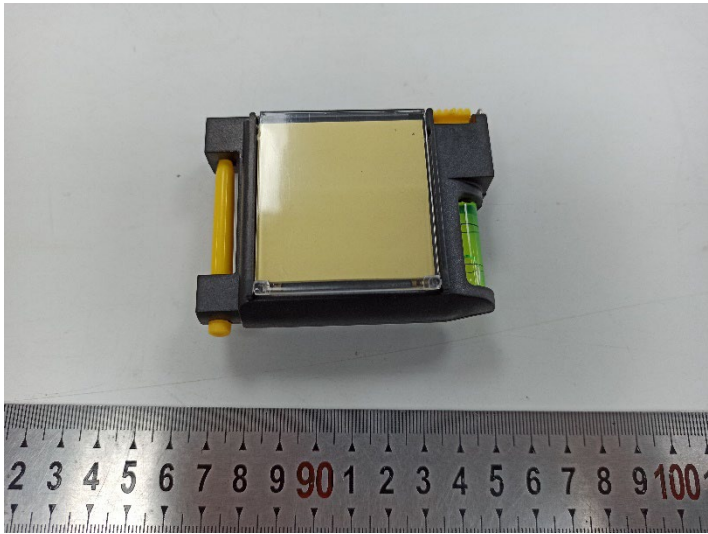
Verify Report





Pictures

Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.

