

## Test report

T-24089627-11-R1



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: Ruler

SKU/style #: MO9591/MO9592

Country of origin: Country of distribution: Europe

Quantity submitted: 2 styles (long:6 pcs; short:1 pc) +

a lot parts

Labeled age grade: Tested age grade: -

Materials: PS

#### General information

Sample receipt date: 17-Jul-2024

Testing period: 19-Jul-2024 to 01-Aug-2024

Report date: 01-Aug-2024

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Manager



#### **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 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





#### 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.	4					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND					500
Conclusion	Pass					

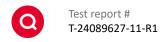
Note:

mg/kg = Milligrams per kilogram

LT = Less than

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





#### 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

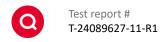
Specimen No.	1+2	3	5+6	7		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND		500
Conclusion	Pass	Pass	Pass	Pass		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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



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

Test Method: ASTM F963-23 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	4					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND					1000
Conclusion	Pass					

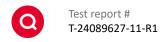
Note:

mg/kg = Milligrams per kilogram

LT = Less than

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





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

Test Method: ASTM F963-23 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3	5+6	7		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND		100
Conclusion	Pass	Pass	Pass	Pass		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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





#### 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	0.	1+2	4			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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] fluroranthene (BbFA)	205-99-2	ND	ND			1
Benzo [j] fluroranthene (BjFA)	205-82-3	ND	ND			1
Benzo [k] fluroranthene (BkFA)	207-08-9	ND	ND			1
Dibenzo [a,h] anthracene (DBAhA)	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)





# 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

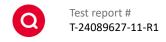
Specimen No.		1+2	4		Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND		1000
Sum of DBP, BBP, DEHP, DIBP		ND	ND		1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND		
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND		
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND		
Sum of DnOP, DINP, DIDP		ND	ND		1000
Conclusion		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)

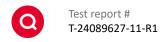




### Specimen description

Specimen #	Specimen description	Location
1	White plastic	Main body (2M style)
2	White plastic	Joint part (2M style)
3	Silvery metal	Joint part (2M style)
4	Black ink	Raw material-lettering (2M style)
5	White plastic	Main body (1M style)
6	White plastic	Joint part (1M style)
7	Silvery metal	Joint part (1M style)





#### **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. (<a href="https://www.qima.com/conditions-of-service#decisionRule">https://www.qima.com/conditions-of-service#decisionRule</a>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.

