

TEST REPORT

Report No.: DPHTL2508013002E

Date: Aug 13,2025

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Applicant: Mid Ocean Brands B.V.**Address:** Unit 711-716, 7/F., Tower A, 83 King Lam Street Cheung Sha Wan,
Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Ruler**Model:** MO6698**vendor code :** 107978**Receiving Date:** Aug 1,2025**Test Period:** From Aug 1,2025 to Aug 8,2025**Add Information:** -

Test Summary:

#	Test Item(s)	Conclusion
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	PASS
2	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	PASS
3	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	PASS
4	Polycyclic-aromatic hydrocarbons (PAHs) content--Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	PASS
5	Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006	PASS

Authorized Signatory

Mark Mai
(Technical Director)

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Result:

1. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		2		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	1000	10
-	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

2. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Test Item(s)		Result		Limit (mg/kg)	MDL (mg/kg)
		1	2		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
-	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

3. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Test item(s)			Result	Limit (%)	MDL (%)
			2		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	0.1	0.005

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5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	-	0.010
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	-	0.010
-	Sum of 1, 2, 3 & 4		N.D.	0.1	-
-	Sum of 5, 6 & 7		N.D.	0.1	-
-	Conclusion		PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)

4. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 AfPS-GS-2019-01:PAK, determined by GC-MS

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		Category I ^{*1}		
		2		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	1	0.2
-	Conclusion	PASS	-	-

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Remark: (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)
1: Material category
Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
Category II : Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

5. Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 12472:2020&EN 1811:2023,determined by ICP-OES

Test Item(s)	Result			MDL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	3			
	A	B	C	
Sample area (cm ²)	68	68	58	-
Volume of Test Solution (ml)	68	68	58	-
Result	N.D.	N.D.	N.D.	0.05
Conclusion	Pass	Pass	Pass	-

Limit :

Sample type	Annex XVII of REACH Limit ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)	EN 1811-2023 Limit ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)	
inserted into pierced ears and other pierced parts of the human body	0.2	<0.35	pass
		≥ 0.35	fail
articles intended to come into direct and prolonged contact with the skin	0.5	≤ 0.88	pass
		>0.88	fail

Remark(s): (a) $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$:microgram per square centimeter per week
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)

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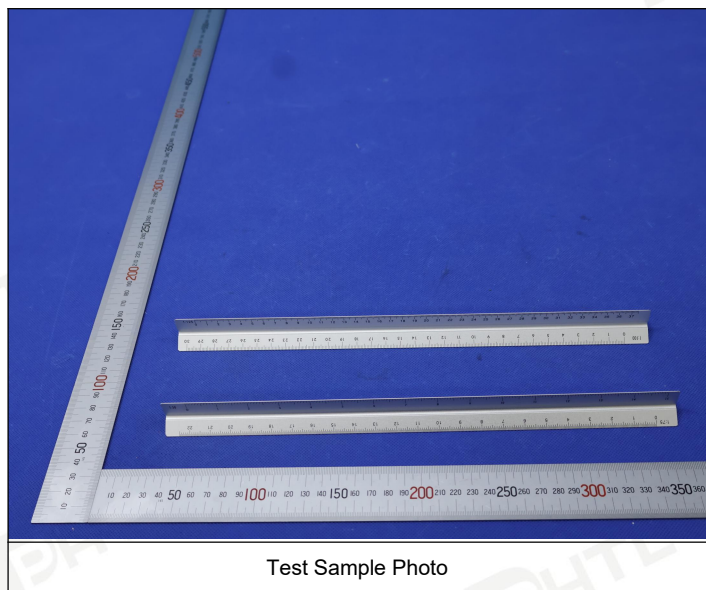
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Material List:

Material #	Sample Description/Position
1	Silvery metal,ruler
2	Black coating,ruler
3	Silvery metal with black coating,ruler

Photo(s):



<<< <<< END OF REPORT >>> >>>

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