



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 1 of 9

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) was (were) submitted and identified by client as)

Sample Name : Reflective key ring in polyester

Model/Item No. : MO2104

Vendor Code : 107978

Test Period : From Apr. 30, 2026 to May. 11, 2026

Tests Conducted : As requested by the applicant, for details refer to next page(s).

Signed for and on behalf of

Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by: _____

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 2 of 9

Executive Summary:

No.	TESTED SAMPLES	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Entry 23 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Cadmium (Cd)	PASS
2	Tested material(s) of submitted sample(s)	Entry 43 of Annex XVII to the REACH Regulation (EC) No.1907/2006 – Azo colorants and Azo dyes	PASS
3	Tested material(s) of submitted sample(s)	Entry 50 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Polycyclic-aromatic hydrocarbons (PAH)	PASS
4	Tested material(s) of submitted sample(s)	Entry 51&52 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Phthalate	PASS
5	Tested material(s) of submitted sample(s)	Entry 63 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Lead (Pb)	PASS
6	Tested material(s) of submitted sample(s)	Client's requirements on Colour fastness to rubbing	PASS



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 3 of 9

TESTS CONDUCTED:

1. Cadmium (Cd)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+2	100	2	N.D.	PASS
3	1000	2	N.D.	PASS
4	100	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 4 of 9

2. Azo colorants and Azo dyes

Test Method: With reference to EN ISO 14362-1:2017, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

No.	ANALYTE	CAS No.	RL (mg/kg)	Limit (mg/kg)	Test Result (mg/kg)	
					3	4
1	4-aminodiphenyl	92-67-1	5	30	N.D.	N.D.
2	Benzidine	92-87-5	5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	5	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	5	30	N.D.	N.D.
5	o-aminoazotoluene	97-56-3	5	30	N.D.	N.D.
6	2-amino-4-nitrotoluene	99-55-8	5	30	N.D.	N.D.
7	p-chloroaniline	106-47-8	5	30	N.D.	N.D.
8	2,4-diaminoanisole	615-05-4	5	30	N.D.	N.D.
9	4,4'-diaminodiphenylmethane	101-77-9	5	30	N.D.	N.D.
10	3,3'-dichlorobenzidine	91-94-1	5	30	N.D.	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	5	30	N.D.	N.D.
12	3,3'-dimethylbenzidine	119-93-7	5	30	N.D.	N.D.
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane	838-88-0	5	30	N.D.	N.D.
14	p-cresidine	120-71-8	5	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)	101-14-4	5	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	5	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	5	30	N.D.	N.D.
18	o-toluidine	95-53-4	5	30	N.D.	N.D.
19	2,4-diaminotoluene	95-80-7	5	30	N.D.	N.D.
20	2,4,5-trimethylaniline	137-17-7	5	30	N.D.	N.D.
21	2-methoxyaniline	90-04-0	5	30	N.D.	N.D.
22	4-aminoazobenzene *	60-09-3	5	30	N.D.	N.D.
Conclusion					PASS	PASS

Note:

1. RL= Reporting Limit.

2. mg/kg = Milligram per kilogram

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TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 5 of 9

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

4. * = Azo colorants that are able to form 4-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of test method EN ISO 14362-1:2017, The presence of these colorants can not be confirmed by this test method. The result of 4-aminoazobenzene is analysed and confirmed by test method EN ISO 14362-3:2017.

5. For the tested samples in this report, the aniline and 1,4-phenylenediamine were not found.



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 6 of 9

3. Polycyclic-aromatic hydrocarbons (PAHS)

Test Method: With reference to AfPS GS 2019:01 PAK, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (mg/kg)	Test Result (mg/kg)
			3
Benzo[a]pyrene (BaP)	50-32-8	0.2	N.D.
Benzo[e]pyrene (BeP)	192-97-2	0.2	N.D.
Benzo[a]anthracene (BaA)	56-55-3	0.2	N.D.
Chrysen (CHR)	218-01-9	0.2	N.D.
Benzo[b]fluoranthene (BbFA)	205-99-2	0.2	N.D.
Benzo[j]fluoranthene (BjFA)	205-82-3	0.2	N.D.
Benzo[k]fluoranthene (BkFA)	207-08-9	0.2	N.D.
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	0.2	N.D.
Conclusion			PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. Requirement: a) For articles for supply to the general public: No more than 1mg/kg each;
b) For toys: No more than 0.5mg/kg each.



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 7 of 9

4. Phthalates

Test Method: With reference to EN 14372:2004, the analysis was performed by Gas Chromatography-Mass Spectrometry (GC-MS).

Restricted Substances	CAS No.	RL (%)	Limit (%)	Test Result (%)
				3
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.003	0.1	N.D.
Dibutyl phthalate (DBP)	84-74-2	0.003	0.1	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	0.003	0.1	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	0.005	0.1	N.D.
Di-isodecyl phthalate (DIDP)	26761-40-0 68515-49-1	0.005	0.1	N.D.
Di-n-octyl phthalate (DNOP)	117-84-0	0.003	0.1	N.D.
Sum		/	0.1	N.D.
Conclusion				PASS

Note:

1. % = Percentage by weight.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. / = Not Specified.

5. Lead (Pb)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1+2	500	2	N.D.	PASS
3	500	2	N.D.	PASS
4	500	2	N.D.	PASS



TEST REPORT

Report No.: CCI260401445EN

Report Date: May. 11, 2026

Page 8 of 9

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

6. Colour fastness to rubbing

Test method: ISO 105-X12:2016(E).

Material No.	Test Item	Client's Limit (Grade)	Results (Grade)	Conclusion
4	Dry (Colour Staining)	2-3	4-5	PASS
	Wet (Colour Staining)	2-3	4-5	PASS

Note:

Explanation of Colour fastness Results

- Grade 5 Negligible or no change or staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained



TEST REPORT

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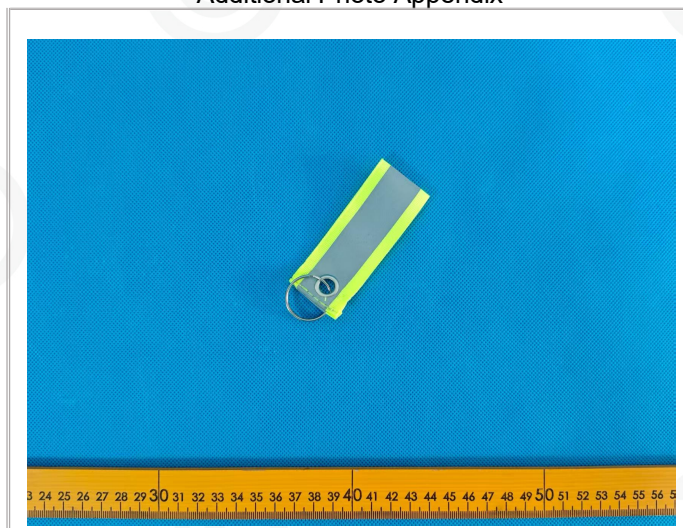
Report Date: May. 11, 2026

Page 9 of 9

Test Material(s) List

Material No.	Description	Location	Material
1	Silvery metal	Split ring	/
2	Silvery metal	Ring	/
3	Silvery coating	Coating	/
4	Light yellow fabric	Band	/

Additional Photo Appendix



★★★★★End of Report★★★★★