Test report

23A-015353

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: Medal with strap

Supplier: 118518

Country of origin: -

Country of distribution: Europe

Quantity submitted: 3 Styles, 8 Pcs per style

Labeled age grade: -

Tested age grade: -

Model #: MO2260

Buyer: Mid Ocean Brands B.V.

General information

Sample receipt date: 06-Dec-2023

Testing period: 06-Dec-2023 to 11-Dec-2023

Report date: 11-Dec-2023

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Supervisor

QIMA (Hangzhou) Testing Co., Ltd.

Carina Zhou

Textile Laboratory Leader

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 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 43 Azocolorants in Textiles	PASS
Colour Fastness to Rubbing	PASS

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	5	**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	ND	**500**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-014510	1	05-Dec-2023
2	23A-014510	2	05-Dec-2023
3	23A-014510	3	05-Dec-2023
4	23A-014510	4	05-Dec-2023

Detailed results

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

Test Method: EN 12472:2020&EN 1811:2023 [1]/ EN 1811:2023[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Direct and Prolonged Contact with Skin

Specimen No.	1			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	25	25	25	
Volume of Test solution Used (mL)	25	25	25	
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[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)	25	25	25	
Volume of Test solution Used (mL)	25	25	25	
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
$\mu g \cdot cm^{-2} \cdot week^{-1}$ is equivalent to $\mu g/cm^2/week$ = Micrograms per square centimeter per week
mL = Millilitres
ND = Not detected (Reporting Limit = 0.1 $\mu g \cdot cm^{-2} \cdot week^{-1}$)
*According to EN 1811:2023 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 or equal to 0.88 $\mu g \cdot cm^{-2} \cdot week^{-1}$;
Fail when the nickel release value is greater than 0.88 $\mu g \cdot cm^{-2} \cdot week^{-1}$.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-014510	1	05-Dec-2023
2	23A-014510	2	05-Dec-2023

Detailed results

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

Test Method: EN 12472:2020&EN 1811:2023 [1]/ EN 1811:2023[2]
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Direct and Prolonged Contact with Skin

Specimen No.	3			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	**Limit**
Size of Tested Sample Area (cm^2)	25	25	25	
Volume of Test solution Used (mL)	25	25	25	
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[2]	ND	ND	ND	
Conclusion	PASS			

Specimen No.	4			
	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 ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[1]	ND	ND	ND	**0.5***
Nickel result ($\mu g \cdot cm^{-2} \cdot week^{-1}$)[2]	ND	ND	ND	
Conclusion	PASS			

Note:
cm^2 = Square centimeters
$\mu g \cdot cm^{-2} \cdot week^{-1}$ is equivalent to $\mu g/cm^2/week$ = Micrograms per square centimeter per week
mL = Millilitres
ND = Not detected (Reporting Limit = 0.1 $\mu g \cdot cm^{-2} \cdot week^{-1}$)
*According to EN 1811:2023 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 or equal to 0.88 $\mu g \cdot cm^{-2} \cdot week^{-1}$;
Fail when the nickel release value is greater than 0.88 $\mu g \cdot cm^{-2} \cdot week^{-1}$.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	23A-014510	3	05-Dec-2023
4	23A-014510	4	05-Dec-2023

Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017
Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen No.		5	---	---	---	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
4-aminobiphenyl	92-67-1	ND	---	---	---	**30**
Benzidine	92-87-5	ND	---	---	---	**30**
4-chloro-o-toluidine	95-69-2	ND	---	---	---	**30**
2-naphtylamine	91-59-8	ND	---	---	---	**30**
o-Aminoazotoluene	97-56-3	ND	---	---	---	**30**
5-nitro-o-toluidine	99-55-8	ND	---	---	---	**30**
4-chloroaniline	106-47-8	ND	---	---	---	**30**
2,4-diaminoanisole	615-05-4	ND	---	---	---	**30**
4,4'-methylenedianiline	101-77-9	ND	---	---	---	**30**
3,3’-dichlorobenzidine	91-94-1	ND	---	---	---	**30**
o-dianisidine	119-90-4	ND	---	---	---	**30**
3,3’-dimethylbenzidine	119-93-7	ND	---	---	---	**30**
4,4’-methylenedi-o-toluidine	838-88-0	ND	---	---	---	**30**
p-cresidine	120-71-8	ND	---	---	---	**30**
4,4’-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	---	**30**
4,4’-oxydianiline	101-80-4	ND	---	---	---	**30**
4,4’-thiodianiline	139-65-1	ND	---	---	---	**30**
o-toluidine	95-53-4	ND	---	---	---	**30**
2,4-diaminotoluene	95-80-7	ND	---	---	---	**30**
2,4,5-trimethylaniline	137-17-7	ND	---	---	---	**30**
2-methoxyaniline	90-04-0	ND	---	---	---	**30**
4-aminoazobenzene	60-09-3	ND	---	---	---	**30**
Conclusion		PASS	---	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:
In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	23A-014510	5	05-Dec-2023

Detailed results

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	5	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	---	---	---	---	Min. 2-3
Wet staining	4-5	---	---	---	---	Min. 2-3
Conclusion	PASS	---	---	---	---	-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5	23A-014510	5	05-Dec-2023

Specimen description

Specimen #	Specimen description	Location
1	Golden metal	Medal
2	Silvery metal	Medal
3	Cupreous metal	Medal
4	Golden metal	Ring
5	Multi-color textile	Strap

Pictures

Sample photo:

Product reference photo:

End of the report