



Test Report

Report No : TST20250100977E

Date:Jan.09, 2025

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Applicant : Mid Ocean Brands B.V.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 117486

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : Charging Cable
Model No. : MO2585
Sample Received Date : Jan.06, 2025
Testing Period : Jan.06, 2025 To Jan.09, 2025
Test Requested : Inspect AZO content in the selected parts as requested by client.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Result Summary:

No.	Test Requested	Conclusion
1	AZO- -European Regulation (EC) No.1907/2006 of the Registration,Evaluation, Authorisation andRestricti on of Chemicals (REACH)Annex XVII Entry 43.	Pass

Signed for and on behalf of

Andy

Andy Zheng
Technical Director



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Sample Description:

No.	Description
1	Black fabric

AZO Colorants test

Test Result:

Test Method: Refer to EN 14362-1:2017, EN 14362-3:2017, was analyzed by GC-MS.

No.	Substances	CAS No.	Unit	MDL	Limit	Result
						1
1	Biphenyl-4-ylamine/4-aminodiphenyl/xenylamine	92-67-1	mg/kg	5	30	N.D.
2	Benzidine	92-87-5	mg/kg	5	30	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	5	30	N.D.
4	2-naphthylamine	91-59-8	mg/kg	5	30	N.D.
5*	o-aminoazotoluene/4-amino-2',3-dimethylazobenzene/4-o-tolylazo-o-toluidine	97-56-3	mg/kg	5	30	N.D.
6*	2-amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	mg/kg	5	30	N.D.
7	4-chloroaniline	106-47-8	mg/kg	5	30	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	30	N.D.
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	30	N.D.
10	3,3'-dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	mg/kg	5	30	N.D.
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	mg/kg	5	30	N.D.
12	3,3'-dimethylbenzidine/4,4-bi-o-toluidine	119-93-7	mg/kg	5	30	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	30	N.D.
14	6-methoxy-m-toluidine/p-cresidine	120-71-8	mg/kg	5	30	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/2,2'-dichloro-4,4-methylene-dianiline	101-14-4	mg/kg	5	30	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	5	30	N.D.

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No.	Substances	CAS No.	Unit	MDL	Limit	Result
						1
17	4,4'-thiodianiline	139-65-1	mg/kg	5	30	N.D.
18	o-toluidine/2-aminotoluene	95-53-4	mg/kg	5	30	N.D.
19	4-methyl-m-phenylenediamine/2,4-toluyldiamine	95-80-7	mg/kg	5	30	N.D.
20	2,4,5-trimethylaniline	137-17-7	mg/kg	5	30	N.D.
21	o-anisidine/2-methoxyaniline	90-04-0	mg/kg	5	30	N.D.
22**	4-aminoazobenzene	60-09-3	mg/kg	5	30	N.D.
23	2,4-xylidine	95-68-1	mg/kg	5	30	N.D.
24	2,6-xylidine	87-62-7	mg/kg	5	30	N.D.

- Note:**
1. mg/kg=milligrams per kilogram
 2. N.D.=No Detection(<MDL)
 3. MDL =Method Detection Limit
 4. "**"=The CAS No. 97-56-3(No.5) and 99-55-8 (No.6) are further reduced to CAS No. 95-53-4(No.18) and 95-80-7(No.19);
 5. "***"= 4-aminoazobenzene (4-aminoazabenzene) was then quantitatively tested by HPLC.

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Sample pictures:



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Date: Jan.16,2025

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Applicant : Mid Ocean Brands B.V.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer : 117486

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : Charging Cable
Sample Model : MO2585
Sample Received Date : Jan.08,2025
Testing Period : Jan.08,2025 To Jan.16,2025
Test Requested : Test samples according to customer requirements.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
CPSC Lab ID : 1755

Result Summary:

Test Requested	Conclusion
Total Nickel release-European Regulation (EC) No.1907/2006 of the Registration Evaluation, Authorisation and Restriction of Chemicals (REACH) Annex XVII Entry 27.	Pass

Signed for and on behalf of

Andy

Andy Zheng
Technical Director



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Sample Description:

No.	Description
1.	Black metal
2.	Black metal
3.	Silver metal
4.	Black metal

Nickel release

Test Method: Refer to EN 1811:2023, was analyzed by ICP-OES.

Test Item	Unit	MDL	Sample(s)	Result 1	Limit
Nickel release	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.10	A	N.D.	See remark
			B	N.D.	See remark
			C	N.D.	See remark

Test Item	Unit	MDL	Sample(s)	Result 2	Limit
Nickel release	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.10	A	N.D.	See remark
			B	N.D.	See remark
			C	N.D.	See remark

Test Item	Unit	MDL	Sample(s)	Result 3	Limit
Nickel release	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.10	A	N.D.	See remark
			B	N.D.	See remark
			C	N.D.	See remark

Test Item	Unit	MDL	Sample(s)	Result 4	Limit
Nickel release	$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	0.10	A	N.D.	See remark
			B	N.D.	See remark
			C	N.D.	See remark

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Remark: Not Detected (less than MDL).

Method Detection Limit.

$\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$ = Microgram per square centimetre per week.

The maximum limit was quoted from European Directive 94/27/EC & 2004/96/EC.

-In all post assemblies which are inserted into pierced ears and other pierced parts of the human body, unless the rate of nickel release from such post assemblies is less than $0.2\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$.

In products intended to come into direct and prolonged contact with the skin is less than $0.5\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$.

Conclusions	Compliant	Non -Compliant
For articles with a migration limit of $<0.2\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	≤ 0.11 $\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	≥ 0.35 $\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$
For articles with a migration limit of $<0.5\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	≤ 0.28 $\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$	≥ 0.88 $\mu\text{g}\cdot\text{cm}^{-2}\cdot\text{week}^{-1}$

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Sample pictures:



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Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

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Sample Name : Charging Cable
Style/ Model No. : MO2585
Manufacturer and Address : 117486
Sample Received Date : Jan.06, 2025
Testing Period : Jan.06, 2025 To Jan.09, 2025
Test Requested : See below TEST PROPERTY.
Test Performed : Selected test(s) as requested by applicant.
Test Result(s) : Please refer to next page(s).
Overall Rating : PASS

Signed for and on behalf of

Andy

Andy Zheng
Technical Director



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Sample description:

No.	Description
1	Black fabric

1、Friction color fastness test (ISO 105-X12:2016)

Detection environment: 21℃, 65%RH

Sample name	Test result (grade)	
Black fabric	Dry friction	Level 4
	Wet friction	Level 4
Note: The color fastness level is represented by level 1-5, among which level 1 is the worst and level 5 is the best.		

Sample photo:



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