

Test Report

Report No. : AGC05443250329-001

SAMPLE NAME: Phone holder wrist strap

MODEL NAME : MO2668

APPLICANT: MID OCEAN BRANDS B.V.

STANDARD(S) : Please refer to the following page(s).

DATE OF ISSUE : Apr. 08, 2025

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Report No.: AGC05443250329-001 MID OCEAN BRANDS B.V.

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

6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street,

Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name Phone holder wrist strap

Model MO2668 Vendor code 106613 Country of Origin **CHINA** Country of Destination **EUROPE** Sample Received Date Mar. 28, 2025

Testing Period Mar. 28, 2025 to Apr. 08, 2025

Test Requested Selected test(s) as requested by client.

Test Requested: Conclusion

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 Pass

- Phthalates Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 27 Pass

- Nickel Release

- Color fastness to rubbing Pass

Approved by: Len

Suhongliang, Leon

Technical Director

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Pass

Pass

Pass

Pass



Report Revise Record

Report No.: AGC05443250	0329-001
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Report Version	Issued Date	Valid Version	Notes
/	Apr. 08, 2025	Valid	Initial release



The photo of the sample



The photo of AGC05443250329-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1+1-2	Black lanyard+ Black cloth with backing
1-1	Black lanyard
1-2	Black cloth with backing
1-3	Black coating
1-4	Metal lock
1-5	Metal hook
1-6	Metal ring
1-7	Screw



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001% Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Tost Itam(s)	Unit Limit		MDL	Test Result(s)		
Test Item(s)	Unit	Limit	MDL	1-1+1-2	1-3	1-4
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	21
Conclusion				Conformity	Conformity	Conformity

Test Item(s)	Linit	Unit Limit	MDL	Test Result(s)			
Test Item(s)	Unit			1-5	1-6	1-7	
Lead(Pb)	mg/kg	500	10	44	46	N.D.	
Conclusion			Conformity	Conformity	Conformity		

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2

2. As specified by client, the submitted samples were dried to test, the test points: 1-3

3. Raw materials were sampled at the following test points: 1-3

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Tost Itom(s)	Unit	Limit	MDL	Test Result(s)		
Test Item(s)	Omi	Lillit	MIDL	1-2	1-3	
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	
Со	Conformity	Conformity				

Remark:

1. As specified by client, the submitted samples were dried to test, the test points: 1-3

2. Raw materials were sampled at the following test points: 1-3



Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

T4 14(-)	T I 14	T ::4	MDI	Test Resi	ult(s)
Test Item(s)	Unit	Limit	MDL	1-2	1-3
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.
Cor	Conformity	Conformity			

Remark:

- 1. As specified by client, the submitted samples were dried to test, the test points: 1-3
- 2. Raw materials were sampled at the following test points: 1-3

Limit requirements of Phthalates

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Tost Itom(s)	Unit Limit MDL -	Limit	MDI	Test Result(s)		
Test Item(s)		1-2	1-3			
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	
Co.	Conclusion					

Remark:

- 1. As specified by client, the submitted samples were dried to test, the test points: 1-3
- 2. Raw materials were sampled at the following test points: 1-3

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s) 1-1+1-2
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.
3,3'-Dimethybenzidine CAS:119-93-7	mg/kg	30	5	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.
2,4-Toluylendiamine CAS:95-80-7	mg/kg	30	5	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	N.D.
CAS.00-07-3	Conformity			

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1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2

Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4-aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 27

- Nickel Release

Test Methods and Equipment: EN 12472:2020 & EN 1811:2023; ICP-OES

Test Point(s)	Parallel Sample	Unit	Limit	MDL	Test Result(s) Nickel Release	Conclusion
	A	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
1-4	В	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	Conformity
	С	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
	A	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
1-5	В	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	Conformity
	C	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
	A	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
1-6	В	μg · cm ⁻² · week ⁻¹	0.5	0.05	N.D.	Conformity
	С	μg · cm ⁻² · week ⁻¹	0.5	0.05	N.D.	

Limit requirements of Nickel Release

Nickel Release				
Type of sample	Pass	Fail		
Article with Nickel release limit of 0.5μg/cm²/week (Non-body piercing)	<0.88μg · cm ⁻² · week ⁻¹	≥0.88μg · cm ⁻² · week ⁻¹		
Article with Nickel release limit of 0.2μg/cm²/week (Body piercing)	<0.35μg · cm ⁻² · week ⁻¹	$\geq 0.35 \mu g \cdot cm^{-2} \cdot week^{-1}$		



- Color fastness to rubbing

Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 19.7°C, 64 %R.H., 4 hrs

The long direction of the specimen Endwise/ Crossrange The percentage of soak of wet rubbing cloth: 95%~100%

	Test Result Colour fastness to rubbing / (Grade)		Conclusion
Test point			
	Dry rubbing	Wet rubbing	
1-1	4-5	4-5	Conformity
1-2	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

Note:

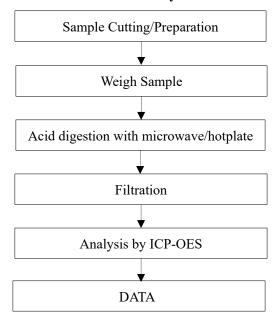
Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

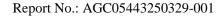
Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

Test Flow Chart of Heavy Metal Content

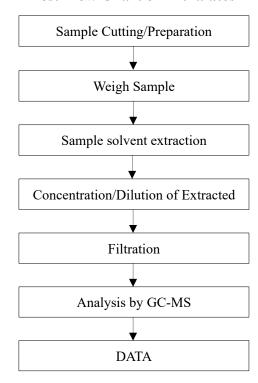


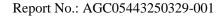
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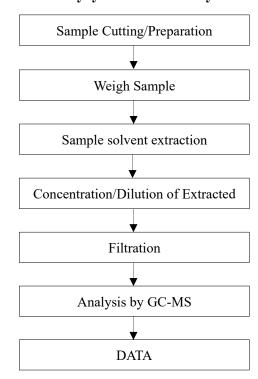
Test Flow Chart of Phthalates

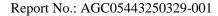






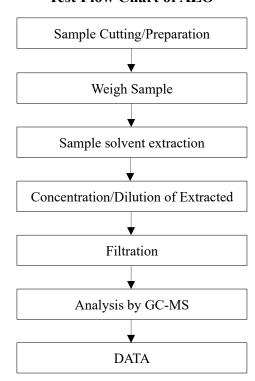
Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

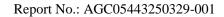






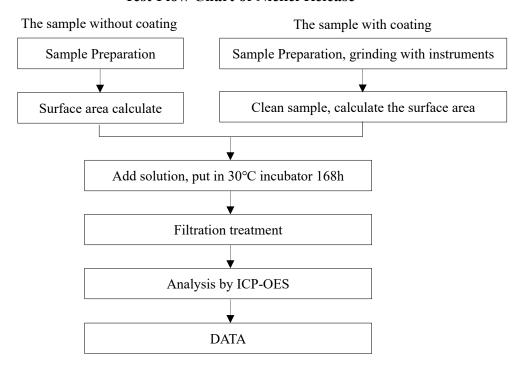
Test Flow Chart of AZO







Test Flow Chart of Nickel Release





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*** End of Report ***