

Test Report

Report No. : AGC05443231033-001

SAMPLE NAME: Phone holder lanyard

MODEL NAME : MO2120

APPLICANT: MID OCEAN BRANDS B.V

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

DATE OF ISSUE : Nov. 02, 2023

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





Applicant : 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 lanyard

Model : MO2120
Vendor code : 106613
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Oct. 24, 2023

Testing Period : Oct. 24, 2023 to Nov. 02, 2023

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

Pass

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

-Cadmium(Cd) Content

Pass

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

- Aromatic Amines Azodyes (AZO) Content

Pass

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

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

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

- Phthalates Content

Pass

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

- Nickel Release

Pass

- Colour fastness to rubbing

Pass

Approved by : Jossie Liang

Liangdan, Jessie.Liang

Technical Director



Report Revise Record

Report No.:	AGC05443231033-001
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Report Version	Issued Date	Valid Version	Notes
/	Nov. 02, 2023	Valid	Initial release



The photo of the sample

The photo of AGC05443231033-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Black rope
1-2	Black plastic buckle
1-3	Black plastic card
1-4	Black coating
1-5	Metal hook
1-6	Metal ring
1-7	Black plastic buckle+Black plastic card



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

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 Itom(s)	Unit Limit		m(a) Hnit	Limit	MDL	Т	Test Result(s)	
Test Item(s)	Ullit	Limit	MDL	1-1	1-2	1-3		
Lead(Pb)	mg/kg	500	10	N.D.	13	N.D.		
Conclusion				Conformity	Conformity	Conformity		

Test Item(s)	Unit	Limit	Limit	T imais	T ::4	MDL	Test Result(s)		
rest item(s)	Unit	Limit	MIDL	1-4	1-5	1-6			
Lead(Pb)	mg/kg	500	10	N.D.	18	20			
Conclusion				Conformity	Conformity	Conformity			

Remark:

1. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4

2. Raw materials were sampled at the following test points: 1-4

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 Itam(s)	Unit	Limit	MDL	Test Result(s)	
Test Item(s)	Unit	Lillit	MIDL	1-4	1-7
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Co	Conformity	Conformity			

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-7

2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4

3. Raw materials were sampled at the following test points: 1-4

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)
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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Report No.: AGC05443231033-001



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 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
Test Item(s)	Oilit	Liiiit	MDL	1-4	1-7
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.
Con	Conclusion				

Remark:

- 1. As specified by client, the submitted samples were mixed to test, the test points: 1-7
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4
- 3. Raw materials were sampled at the following test points: 1-4

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



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
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

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

Test Items(s)	T I:4	Limit	MDL	Test Resi	ult(s)
Test Item(s)	Unit	Limit	MIDL	1-4	1-7
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.
Con	Conformity	Conformity			

Remark:

- 1. As specified by client, the submitted samples were mixed to test, the test points: 1-7
- 2. As specified by client, the submitted samples were directly tested without drying, the test points: 1-4
- 3. Raw materials were sampled at the following test points: 1-4

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%



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
1-5	A	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
	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.	
1-6	A	$\mu g \cdot cm^{-2} \cdot week^{-1}$	0.5	0.05	N.D.	
	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.	

Limit requirements of Nickel Release

Nickel Release							
NICKEI KEICASC							
Type of sample	Pass	Fail					
Article with Nickel release limit of	<0.99.ug - am=2 - vva al=1	$\geq 0.88 \mu g \cdot cm^{-2} \cdot week^{-1}$					
0.5μg/cm ² /week (Non-body piercing)	$<0.88 \mu g \cdot cm^{-2} \cdot week^{-1}$						
Article with Nickel release limit of	<0.2521-1	$\geq 0.35 \mu g \cdot cm^{-2} \cdot week^{-1}$					
0.2μg/cm ² /week (Body piercing)	$<0.35 \mu g \cdot cm^{-2} \cdot week^{-1}$						

- Colour fastness to rubbing

Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 22.0 ℃, 65 %R.H., 4 hrs

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

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

Note:

Colour Fastness Grade:

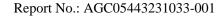
Grade 5 = No Colour Change (Best Grade)

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.

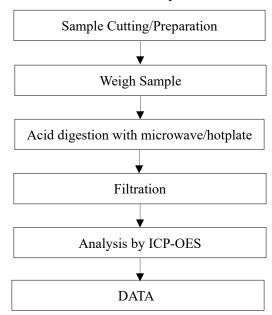
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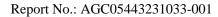
Report No.: AGC05443231033-001





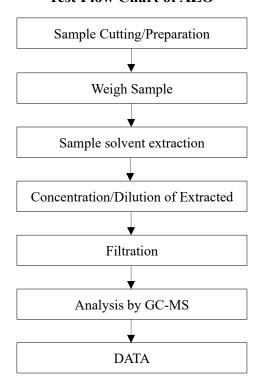
Test Flow Chart of Heavy Metal Content

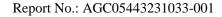






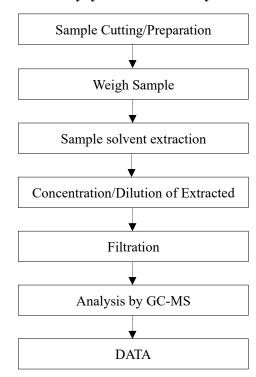
Test Flow Chart of AZO

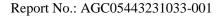






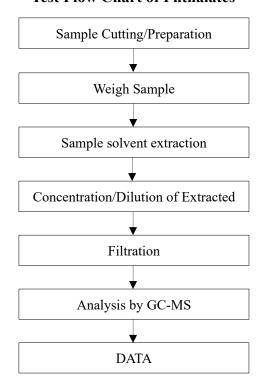
Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)







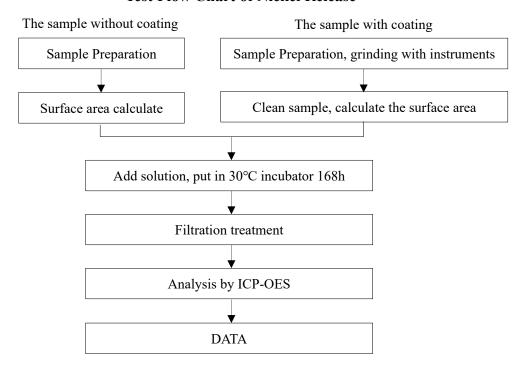
Test Flow Chart of Phthalates







Test Flow Chart of Nickel Release





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*** End of Report ***