

# Test Report

Report No.: AGC03507200701-001S2

Date: Apr.12, 2021

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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.  
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: Iphone 6 reflective mobile arm bag, Reflective mobile arm bag  
Model: MO8737, MO6239  
Vendor Code: 107978  
Sample Received Date: Jul.02, 2020  
Testing Period: Jul.02, 2020 to Aug.07, 2020

Reviewed by: Huangguohua

Huangguohua  
Vice Laboratory Manager



Approved by: Jessie Liang

Liangdan, Jessie.Liang  
Technical Director



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**Test Requested:**

- 1.As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 2.As specified by client, to determine the Cadmium(Cd) content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 3.As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
4. As specified by client, to determine Azocolourants and Azodyes in the submitted sample with reference to Entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.
5. As specified by client, to determine the color fastness to rubbing of the submitted sample.

**Conclusion**

Pass

Pass

Pass

Pass

Pass

**Test Result:**

**1. Test Result(s) of Pb**

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-10	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	10	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample
  4. Test result on specimen No.1-1, No.1-2, No.1-3 and No.1-5 were resubmitted on Jul.22, 2020.
  5. Test result on specimen No.1-9 was resubmitted on Aug.06, 2020.

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## 2. Test Result(s) of Cd

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-10	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample
  4. Test result on specimen No.1-1, No.1-2, No.1-3 and No.1-5 were resubmitted on Jul.22, 2020.
  5. Test result on specimen No.1-9 was resubmitted on Aug.06, 2020.

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### 3. Test result of phthalates content

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-2	1-3	1-4	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.010	N.D.	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.010	N.D.	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.010	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.010	N.D.	N.D.	N.D.	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.010	N.D.	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.010	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.010	N.D.	N.D.	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-5	1-7	1-8	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.010	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.010	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.010	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.010	N.D.	N.D.	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.010	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.010	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.010	N.D.	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

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Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-9	1-10	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.010	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.010	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.010	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.010	N.D.	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.010	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.010	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.010	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>

- Note:**
- 0.1%,w/w =1000mg/kg
  - MDL=method detection limit
  - N.D.=not detected (less than method detection limit)
  - “—” =Not regulated
  - As specified by client, only test the designated sample.
  - Test result on specimen No.1-1, No.1-2, No.1-3 and No.1-5 were resubmitted on Jul.22, 2020.
  - Test result on specimen No.1-9 was resubmitted on Aug.06, 2020.

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## 4. Test result of AZO content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit	
			1-6		
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	30	
Benzidine		5	N.D.	30	
4-Chloro-o-Toluidine		5	N.D.	30	
2-Naphthylamine		5	N.D.	30	
o-Aminoazotoluene		5	N.D.	30	
5-Nitro-o-toluidine		5	N.D.	30	
4-Chloroaniline		5	N.D.	30	
4-Methoxy-m-phenylenediamine		5	N.D.	30	
4,4'-Diaminodiphenylmethane		5	N.D.	30	
3,3'-Dichlorobenzidine		5	N.D.	30	
3,3'-Dimethoxybenzidine		5	N.D.	30	
3,3'-Dimethylbenzidine		5	N.D.	30	
4,4'-Methylenedi-o-toluidine		5	N.D.	30	
p-Cresidine		5	N.D.	30	
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	30	
4,4'-Oxydianiline		5	N.D.	30	
4,4'-Thiodianiline		5	N.D.	30	
o-Toluidine		5	N.D.	30	
4-Methyl-m-phenylenediamine		5	N.D.	30	
2,4,5-Trimethylaniline		5	N.D.	30	
o-Anisidine		5	N.D.	30	
4-Amino azobenzene		5	N.D.	30	
2,4-Xylidine		5	N.D.	30	
2,6-Xylidine		5	N.D.	30	
<b>Conclusion</b>		/	/	<b>Pass</b>	/

- Note:**
1. mg/kg= parts per million
  2. MDL= Method Detection Limit
  3. N.D.=Not Detected(less than method detection limit)

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4. As specified by client, only test the designated sample.
5. The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene

## 5. Test Results of Color fastness to rubbing

Item	Test method	Result				Client's requirement
		/	/	1-6		
Color fastness to rubbing (Grade)	ISO 105-X12-2016	Staining color (Grade)	Cotton	dry	4-5	≥2-3
				wet	4	≥2-3
<b>Conclusion</b>	/	/	/	/	<b>Pass</b>	/

Note:

- Color fastness grade: grey scale (5 grade is good, 1 grade is bad).

## Sample Description:

1-1	Black PU
1-2	White PU
1-3	Orange PU
1-4	Blue PU
1-5	Green PU
1-6	Black cloth
1-7	Black Velcro
1-8	Blue coating
1-9	Grey coating
1-10	Transparent plastic

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**No.18 C**

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# Test Report

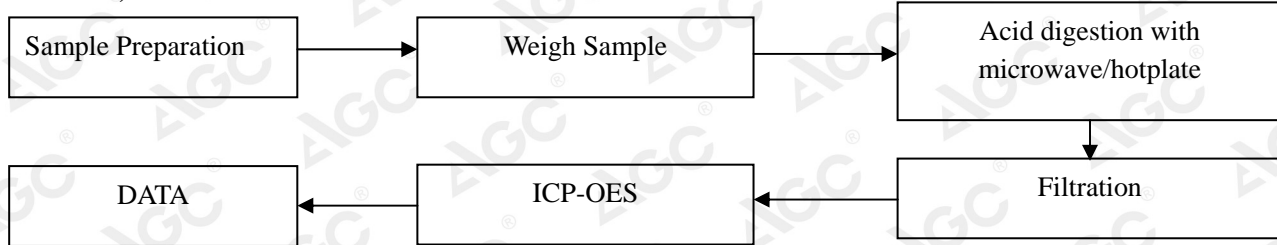
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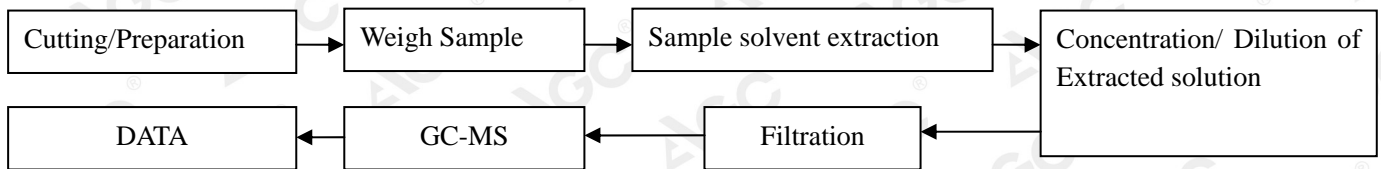
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## Test Flow Chart

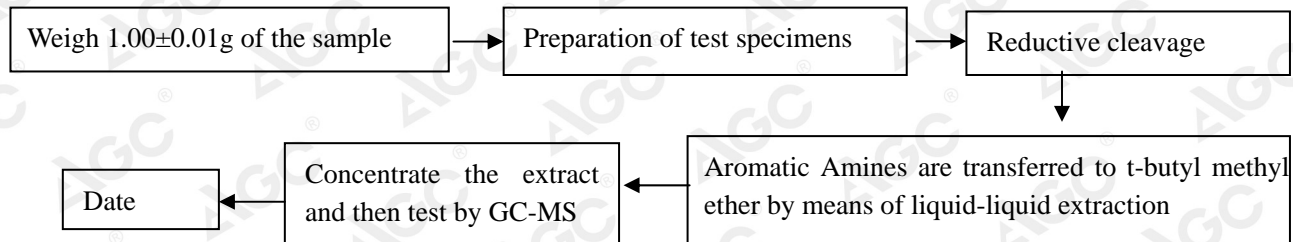
### 1.For Pb , Cd



### 2.For Phthalates



### 3.For AZO



This report is to supersede the report with No.: AGC03507200701-001S1 dated on Aug.07, 2020.

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## The photo of the sample



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\*\*\* End of Report \*\*\*

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