
Test Report

Report No. : AGC03507210305-001

SAMPLE NAME : Foldable Chair with Cooler Bag

MODEL NAME : MO6112

APPLICANT : MID OCEAN BRANDS B.V

STANDARD(S) : Please refer to follow page(s).

DATE OF ISSUE : Mar.15, 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 : Foldable Chair with Cooler Bag
Model : MO6112
Vendor Code : 107978
Sample Received Date : Mar.10, 2021
Testing Period : Mar.10, 2021 to Mar.15, 2021

Test Requested:

1. As specified by client, to determine the Aromatic Amines Azodyes(AZO) content in the submitted sample(s) with reference to entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. 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.
4. 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.
5. As specified by client, to determine the Color fastness to rubbing of the submitted sample.

Conclusion**Pass****Pass****Pass****Pass****Pass**Approved by: Huangguohua

Huangguohua

Vice Laboratory Manager

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

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Test Result(s):
1. Test Result of Aromatic Amines Azodyes(AZO) Content

Test Item	Test Method/ Instrument	MDL	Limit
4-Aminobiphenyl(CAS No.:92-67-1)	EN ISO 14362-1:2017& EN ISO 14362-3:2017 ^{a/} GC-MS	5mg/kg	≤30mg/kg
Benzidine(CAS No.:92-87-5)		5mg/kg	≤30mg/kg
4-Chloro-o-Toluidine (CAS No.:95-69-2)		5mg/kg	≤30mg/kg
2-Naphthylamine(CAS No.: 91-59-8)		5mg/kg	≤30mg/kg
4-amino-2',3-dimethylazobenzene (CAS No.:97-56-3)		5mg/kg	≤30mg/kg
5-Nitro-o-toluidine(CAS No.:99-55-8)		5mg/kg	≤30mg/kg
4-Chloroaniline(CAS No.:106-47-8)		5mg/kg	≤30mg/kg
4-Methoxy-m-phenylenediamine (CAS No.: 615-05-4)		5mg/kg	≤30mg/kg
4,4'-Diaminodiphenylmethane (CAS No.: 101-77-9)		5mg/kg	≤30mg/kg
3,3'-Dichlorobenzidine (CAS No.: 91-94-1)		5mg/kg	≤30mg/kg
3,3'-Dimethoxybenzidine (CAS No.: 119-90-4)		5mg/kg	≤30mg/kg
3,3'-Dimethylbenzidine (CAS No.:119-93-7)		5mg/kg	≤30mg/kg
4,4'-Methylenedi-o-toluidine (CAS No.:838-88-0)		5mg/kg	≤30mg/kg
6-methoxy-m-toluidine (CAS No.:120-71-8)		5mg/kg	≤30mg/kg
4,4'-methylenebis[2-chloroaniline] (CAS No.:101-14-4)		5mg/kg	≤30mg/kg
4,4'-Oxydianiline(CAS No.:101-80-4)		5mg/kg	≤30mg/kg
4,4'-Thiodianiline(CAS No.:139-65-1)		5mg/kg	≤30mg/kg
2-Aminotoluene(CAS No.:95-53-4)		5mg/kg	≤30mg/kg
4-methyl-m-phenylenediamine (CAS No.:95-80-7)		5mg/kg	≤30mg/kg
2,4,5-Trimethylaniline (CAS No.:137-17-7)		5mg/kg	≤30mg/kg
2-Methoxyaniline(CAS No.:90-04-0)	5mg/kg	≤30mg/kg	
4-Aminoazobenzene (CAS No.:60-09-3)	5mg/kg	≤30mg/kg	

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Test Item(s)	Result(s) (mg/kg)			
	1-1	1-2	1-3	1-4
4-Aminobiphenyl	N.D.	N.D.	N.D.	N.D.
Benzidine	N.D.	N.D.	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.	N.D.	N.D.
3,3'-Dimethylbenzidine	N.D.	N.D.	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.	N.D.	N.D.
Conclusion	Conformity	Conformity	Conformity	Conformity

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2. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0; 68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

No.	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

3. Test Result of Cadmium(Cd) Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity

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No.	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity

4. Test Result of Lead(Pb) Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity

Note:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

N.D.=Not Detected (less than method detection limit)

%= percentage

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Remark:

- As specified by client, only test the designated sample.
- ^a 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 Result of Color fastness to rubbing

Test Item	Test Method	Result(s)		Limit (Client's Requirement)
		1-1		
		dry	wet	
Color fastness to rubbing (Grade)	ISO 105-X12:2016	4-5	4-5	2-3
Conclusion	/	Conformity	Conformity	/

Test Item	Test Method	Result(s)		Limit (Client's Requirement)
		1-2		
		dry	wet	
Color fastness to rubbing (Grade)	ISO 105-X12:2016	4-5	4-5	2-3
Conclusion	/	Conformity	Conformity	/

Test Item	Test Method	Result(s)		Limit (Client's Requirement)
		1-3		
		dry	wet	
Color fastness to rubbing (Grade)	ISO 105-X12:2016	4-5	4-5	2-3
Conclusion	/	Conformity	Conformity	/

Note:

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

Sample Description:

1-1	Blue cloth
1-2	Black cloth
1-3	Black hand strap
1-4	Black zipper cloth
1-5	Black zipper teeth
1-6	Black plastic strip
1-7	White plastic

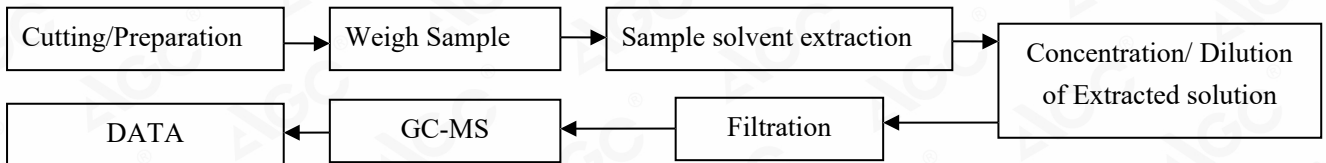
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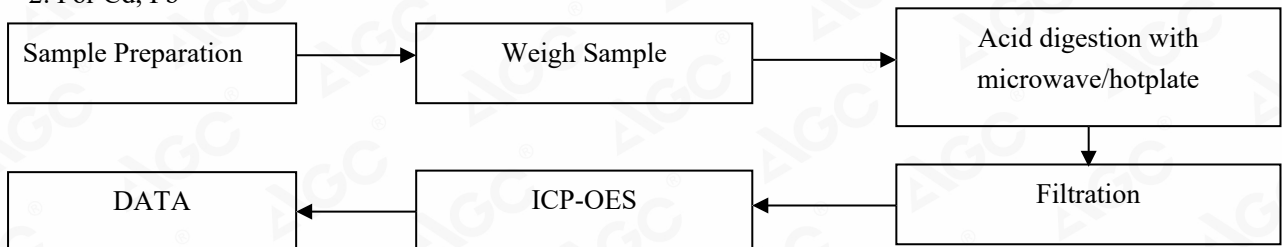
1-8	Aluminum foil
1-9	Metal zipper pull
1-10	Metal rack
1-11	Metal nail

Test Flow Chart

1. For AZO, Phthalates



2. For Cd, Pb



The photo of the sample



AGC authenticate the photo only on original report

*** End of Report ***

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9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
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