

TEST REPORT

Test Report # 22A-011071 Date of Report Issue: October 10, 2022
Date of Sample Received: September 28, 2022 Pages: Page 1 of 15

CLIENT INFORMATION:

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



SAMPLE INFORMATION:

Product Name: Beach chair
Style No.: IT2797 Labeled Age Grade: -
Order No.(PO No.): - Client Request Age Grade: -
Country of Origin: - Recommended Age Grade: -
Country of Distribution: Europe Tested Age Grade: -
Composition/Main Material: Polyester, steel
Testing Period: 09/28/2022-10/10/2022

OVERALL RESULT:

PASS

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)
PASS	Colour Fastness to Rubbing



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	500
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	4	5	6	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7	9	10	11	15	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	41	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	8	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	1000
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2	4	6	7	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	100
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)



DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017
 Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen No.		1	3	12	13	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-aminobiphenyl	92-67-1	ND	ND	ND	ND	30
Benzidine	92-87-5	ND	ND	ND	ND	30
4-chloro-o-toluidine	95-69-2	ND	ND	ND	ND	30
2-naphtylamine	91-59-8	ND	ND	ND	ND	30
o-Aminoazotoluene	97-56-3	ND	ND	ND	ND	30
5-nitro-o-toluidine	99-55-8	ND	ND	ND	ND	30
4-chloroaniline	106-47-8	ND	ND	ND	ND	30
2,4-diaminoanisoole	615-05-4	ND	ND	ND	ND	30
4,4'-methylenedianiline	101-77-9	ND	ND	ND	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	ND	30
o-dianisidine	119-90-4	ND	ND	ND	ND	30
3,3'-dimethylbenzidine	119-93-7	ND	ND	ND	ND	30
4,4'-methylenedi-o-toluidine	838-88-0	ND	ND	ND	ND	30
p-cresidine	120-71-8	ND	ND	ND	ND	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	ND	30
4,4'-oxydianiline	101-80-4	ND	ND	ND	ND	30
4,4'-thiodianiline	139-65-1	ND	ND	ND	ND	30
o-toluidine	95-53-4	ND	ND	ND	ND	30
2,4-diaminotoluene	95-80-7	ND	ND	ND	ND	30
2,4,5-trimethylaniline	137-17-7	ND	ND	ND	ND	30
2-methoxyaniline	90-04-0	ND	ND	ND	ND	30
4-aminoazobenzene	60-09-3	ND	ND	ND	ND	30
Conclusion		PASS	PASS	PASS	PASS	



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Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017
 Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen No.	14	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
4-aminobiphenyl	92-67-1	ND	---	---	30
Benzidine	92-87-5	ND	---	---	30
4-chloro-o-toluidine	95-69-2	ND	---	---	30
2-naphtylamine	91-59-8	ND	---	---	30
o-Aminoazotoluene	97-56-3	ND	---	---	30
5-nitro-o-toluidine	99-55-8	ND	---	---	30
4-chloroaniline	106-47-8	ND	---	---	30
2,4-diaminoanisoole	615-05-4	ND	---	---	30
4,4'-methylenedianiline	101-77-9	ND	---	---	30
3,3'-dichlorobenzidine	91-94-1	ND	---	---	30
o-dianisidine	119-90-4	ND	---	---	30
3,3'-dimethylbenzidine	119-93-7	ND	---	---	30
4,4'-methylenedi-o-toluidine	838-88-0	ND	---	---	30
p-cresidine	120-71-8	ND	---	---	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	30
4,4'-oxydianiline	101-80-4	ND	---	---	30
4,4'-thiodianiline	139-65-1	ND	---	---	30
o-toluidine	95-53-4	ND	---	---	30
2,4-diaminotoluene	95-80-7	ND	---	---	30
2,4,5-trimethylaniline	137-17-7	ND	---	---	30
2-methoxyaniline	90-04-0	ND	---	---	30
4-aminoazobenzene	60-09-3	ND	---	---	30
Conclusion	PASS	---	---	---	



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ND = Not detected (Reporting Limit = 5 mg/kg)

Remark:

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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	6	7	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	1000
Sum of DBP, BBP, DEHP, DIBP		ND	ND	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	
Sum of DnOP, DINP, DIDP		ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	15	---	---	Limit (mg/kg)	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	707	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	---	---	1000
Sum of DBP, BBP, DEHP, DIBP		707	---	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	228	---	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		228	---	---	1000
Conclusion		PASS	---	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



DETAILED RESULTS:

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	16-Main fabric	17	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	4-5	---	---	---	Min. 4-5
Wet staining	4-5	4-5	---	---	---	Min. 4-5
Conclusion	PASS	PASS	---	---	---	-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Blue coated blue textile	Main body
2	White soft plastic	Main body
3	White textile	Edge
4	White fabric	Velcro loop
5	Silvery metal	Spring of adjustable buckle
6	Black soft plastic	Gasket of backrest
7	Black plastic	Connecting part of bracket
8	White coating	Bracket
9	Silvery metal	Bracket
10	Silvery metal	Screw
11	Silvery metal	Gasket of bracket
12	Blue textile	Bag
13	Black textile	Drawstring
14	Black textile	Bag handle
15	Black plastic	Adjustable buckle
16	Blue beach chair	Finished product
17	Blue bag	Finished product



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SAMPLE PHOTO:



-End Report-

