Test Report

Report No.: LST19106583EN **Date:** Nov. 12, 2019

Applicant: MID OCEAN BRANDS B.V.

Address: 7/F.,KINGS TOWER,111 KING LAM STREET,CHEUNG SHA WAN,KOWLOON,HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

Sample Name:	Foldable Chair with Cooler Bag
Test Model:	MO6112
P/O No.:	4100085628
Supplier:	103225
Exported to:	Netherlands
Buyer:	MID OCEAN BRANDS B.V.
Sample Receiving Date:	Oct. 24, 2019
Testing Period:	Oct. 25, 2019 to Nov. 12, 2019
Test Results:	Please Refer To The Following Page(s)
Test Requested and Conclusion(s):	Please Refer To The Following Page(s)

Signed for and on behalf of LST

Rory

Rory / Technical Manager

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Test Report

Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	Annex XVII items 63 of the REACH - Lead content	PASS
2	Tested materials of submitted samples	Annex XVII items 23 of the REACH - Cadmium content	PASS
3	Tested materials of submitted samples	Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 & (EU) 2018/2005 - Phthalates	PASS
4	Tested materials of submitted samples	Annex XVII items 43 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Azo colorants and Azo dyes	PASS
5	Tested materials of submitted samples	Client's requirements on colour fastness to rubbing	PASS
6	Tested materials of submitted samples	EN 581-1:2017 outdoor furniture - seating and table for camping, domestic and contract use - Part 1: general safety requirements - EN 1022: 2005, Domestic furniture - seating - determination of stability	PASS
7	Tested materials of submitted samples	EN 581-2: 2015 + AC: 2016 - Outdoor furniture - Seating and tables for camping, domestic and contract use - Part 2: mechanical safety requirements and test methods for seating. (Test level: domestic level) - EN 1728: 2012+AC:2013, Domestic furniture - seating - test methods for the determination of strength and durability	PASS

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Sample Description

Material No.	Component Description	Location
01	Silvery metal	Substrate of chair rack
02	Black paint	Coating of chair rack
03	Silvery plating metal	Screw
04	Black plastic	Outside of covered edge
05	Black synthetic fiber with black plastic	Bag body
06	Silvery aluminum foil	Inside of bag
07	White plastic	Inside of bag
08	Silvery metal	Substrate of zipper hand
09	Silvery metal	Substrate of zipper head
10	Black plastic	Zipper teeth
11	Black paint	Coating of zipper
12	Black fabric with black plastic	Bag body
13	Chair	Chair entirety

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Photo of sample

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Test Result(s):

Annex XVII items 63 of the REACH - Lead content

Method:

Metal - With reference to CPSC-CH-E1001-08.3:2012

Nonmetal - With reference to CPSC-CH-E1002-08.3:2012

Surface coating - With reference to CPSC-CH-E1003-09.1:2011

Analyzed by Atomic Absorption Spectroscopy (AAS)

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+08+09)▲	500	27	PASS
02	500	N.D.	PASS
03	500	15	PASS
(04+07+10)▲	500	N.D.	PASS
05	500	N.D.	PASS
06	500	N.D.	PASS
11	500	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 23 of the REACH - Cadmium content

Method:

Metal - With reference to CPSC-CH-E1001-08.3:2012

Nonmetal - With reference to CPSC-CH-E1002-08.3:2012

Surface coating - With reference to CPSC-CH-E1003-09.1:2011

Analyzed by Atomic Absorption Spectroscopy (AAS)

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(01+08+09)▲	100	N.D.	PASS
02	1000	N.D.	PASS
03	100	N.D.	PASS
(04+07+10)▲	100	N.D.	PASS
05	100	N.D.	PASS
06	100	N.D.	PASS
11	1000	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 5 mg/kg.
4. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to CPSC-CH-C1001-09.4:2018, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	DNOP	DIDP	DINP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	117-84-0	26761-40-0/ 68515-49-1	28553-12-0/ 68515-48-0	
Limit (mg/kg)	1000				1000			
RL (mg/kg)	50	50	50	50	50	100	100	
Material No.	Result (mg/kg)							
02	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(04+07+10)▲	N.D.	N.D.	84	N.D.	N.D.	N.D.	N.D.	PASS
05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
11	132	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 43 of the REACH - Azo colourants and Azo dyes
Method: With reference to BS EN ISO 14362-1:2017 and BS EN ISO 14362-3:2017
Analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS)

No.	Substances Name	CAS No.	Limit (mg/kg)	Result (mg/kg)
				05
1	biphenyl-4-ylamine/ 4-aminodiphenyl/ xenylamine	92-67-1	30	N.D.
2	benzidine	92-87-5	30	N.D.
3	4-chloro-o-toluidine	95-69-2	30	N.D.
4	2-naphthylamine	91-59-8	30	N.D.
5△	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2', 3-dimethylazobenzene	97-56-3	30	N.D.
6△	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine	99-55-8	30	N.D.
7	4-chloroaniline	106-47-8	30	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	30	N.D.
9	4,4'-methylenedianiline/ ,4'-diaminodiphenylmethane	101-77-9	30	N.D.
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	30	N.D.
11	3,3'-dimethoxybenzidine/ o-dianisidine	119-90-4	30	N.D.
12	3,3'-dimethylbenzidine/ 4,4'-bi-o-toluidine	119-93-7	30	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	30	N.D.
14	6-methoxy-m-toluidine/ p-cresidine	120-71-8	30	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	30	N.D.
16	4,4'-oxydianiline	101-80-4	30	N.D.
17	4,4'-thiodianiline	139-65-1	30	N.D.
18	o-toluidine/ 2-aminotoluene	95-53-4	30	N.D.
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	30	N.D.
20	2,4,5-trimethylaniline	137-17-7	30	N.D.
21	o-anisidine / 2-methoxyaniline	90-04-0	30	N.D.
22◇	4-aminoazobenzene	60-09-3	30	N.D.
Conclusion				PASS

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Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 5 mg/kg.
4. "△" = The CAS No. 97-56-3 (No.5) and 99-55-8 (No.6) are further reduced to CAS No.95-53-4 (No.18) and 95-80-7(No.19).
5. "◇" = Azo colorants that are able to form 4-aminoazobenzene(No.22), generate under the condition of this method aniline and 1, 4-phenylenediamine, therefore, the method of BS EN ISO 14362-3:2017 was employed to verify the 4-aminoazobenzene.

Colour fastness to rubbing

Method: With reference to ISO 105-X12:2016

Material No.	Test Item		Client's Requirement (Min. Grade)	Results (Grade)	Conclusion
12	Warp	Dry(Colour Staining)	2	4-5	PASS
		Wet(Colour Staining)	2	4-5	
	Weft	Dry(Colour Staining)	2	4-5	
		Wet(Colour Staining)	2	4-5	

Note:

Explanation of Colour fastness Results

Grade 5 Negligible or no change or staining

Grade 4 Slightly changed or stained

Grade 3 Noticeably changed or stained

Grade 2 Considerably changed or stained

Grade 1 Much changed or heavily stained

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Safety, strength and durability requirements for other seating [s]

Method: With reference to EN 581-2:2015/AC: 2016 - outdoor furniture - seating and tables for camping, domestic and contract use - part2: mechanical safety requirements and test methods for seating, the submitted samples were subjected to the following tests.

Material No.: 13

Clause	Description	Result	*Comments
4 & EN 1728:2012+AC:2013,4.1	Preliminary preparation	CONDUCTED	See note 3
--	Defect observed before testing	--	See note 4
EN 581-1:2017	General safety test	PASS	See note 5
EN 1022: 2005	Forward stability test	NC	See note 2
EN 1022: 2005	Rearward stability test	NC	See note 2
EN 1022: 2005	Sideway stability test	NC	See note 2
EN 1728:2012+AC:2013, 6.4	Seat & back static load	PASS	-
EN 1728:2012+AC:2013, 6.5	Seat front edge static load	PASS	-
EN 1728:2012+AC:2013, 6.17	Combined seat and back durability test	PASS	-
EN 1728:2012+AC:2013, 6.19	Durability test on seating with a multi-position back test	NA	See note 1
EN 1728:2012+AC:2013, 6.11	Arm test static load test	NA	See note 1
EN 1728:2012+AC:2013, 6.20	Arm rest durability test	NA	See note 1
EN 1728:2012+AC:2013, 6.15	Leg forward static load test	PASS	-
EN 1728:2012+AC:2013, 6.16	Leg sideways static load test	PASS	-
EN 1728:2012+AC:2013, 6.24	Seat impact test	PASS	-
EN 1728:2012+AC:2013, 6.8	Foot test static load	NA	See note 1
EN 1022: 2005	Forward stability test	NC	See note 2
EN 1022: 2005	Rearward stability test	NC	See note 2
EN 1022: 2005	Sideway stability test	NC	See note 2
8.1	Instruction for use	NC	See note 2

Note:

1. NA = Not applicable
2. NC = Not conducted as per client request
3. Samples were stored in indoor ambient condition 24 hours immediately prior to testing.
4. No defect was observed before testing.
5. Reference to detail test results of EN 581-1: 2017.

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General safety requirements for outdoor furniture [s]

Method: With reference to EN 581-1:2017 outdoor furniture - seating and tables for camping, domestic and contract use - part 1 - general safety requirements, the submitted sample was subjected to the following tests.

Material No.: 13

Clause	Description	Result	*Comments
5.1	General	PASS	--
5.2	Tubular components	PASS	--
5.3	Shear and squeeze points	--	--
5.3.1	Shear and squeeze points when erecting, adjusting and folding away	PASS	--
5.3.2	Shear and squeeze points under the influence of powered mechanisms	NA	See note 1
5.3.3	Shear and squeeze points during use	PASS	--

Note: 1. NA = Not applicable

End of Report

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