

TEST REPORT

Applicant: MID OCEAN BRANDS B.V.
WELLENSIEKSTRAAT 2,
6718 XZ, EDE,
THE NETHERLANDS

Number: HKGH03222691 S1

Date: Mar 06, 2025

Attn: DEREK HUI

Sample and Information provided by customer :

Item Name : **Deck chairs**
Item No. : **YC6503, MCHA01, MCHA02, MCHA03, MO6503**
Quantity : **2 pieces per styles**
Vendor : **118307**
Country of Origin : **Poland**
Date sample received : **Feb 06, 2025**
Testing period : **Feb 06, 2025 to Feb 13, 2025**

For and on behalf of :
Intertek Testing Services HK Ltd.



Dorothy M.Y. Lau
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 - Lead content requirement	Pass
(2) BS EN ISO 105-X12:2016 -Colour fastness to rubbing test	Pass
(3) Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 - Cadmium content requirement	Pass
(4) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
(5) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(6) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment (EC) no. 552/2009 and (EU) no. 2096/2020 - Azocolourants content ∞	Pass
(7) Applicant's requirement - Formaldehyde content	Pass
(8) Regulation (EU) No. 2019/1021 on persistent organic pollutants (POPs) & amendment (EU) no. 2021/277 - Pentachlorophenol (PCP) content	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

Note : This is to supersede Report No. HKGH03222691 dated Feb 14, 2025 due to Amending sample description



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(1) Lead (Pb) Content

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

Lead Content:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.05
(2/3)	ND	0.05
(4/5/6)	ND	0.05
(7)	ND	0.05
(8)	ND	0.05
(9)	ND	0.05
(10)	ND	0.05
(11)	ND	0.05
(12)	ND	0.05
(13)	ND	0.05
(14)	ND	0.05

ND : Not detected (< 0.002%)

Tested Components:

- (1) Light brown plastic (frame of loungers).
- (2) White fabric with multicolor printings (seat of chair).
- (3) White fabric with multicolor printings (seat of "Where is the limit?" lounge).
- (4) White fabric with multicolor printings (seat of "RACING 23" lounge).
- (5) White fabric with light blue / red printings (seat of flower lounge).
- (6) Light brown webbing (strap of "RACING 23" lounge).
- (7) Pale brown wood (frame of chair, all loungers).
- (8) Gold color metal (round crosshead screw).
- (9) Iridescent plated metal (rivet).
- (10) Iridescent plated metal (washer of rivet).
- (11) Iridescent plated metal (slotted screw).
- (12) Silver color metal (flat crosshead screw).
- (13) Silver color metal (staple).
- (14) Gold color metal (staple).

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(2) Colour Fastness to Rubbing

Test Standard : BS EN ISO 105-X12:2016 Colour Fastness to Rubbing

<u>Tested Component</u>	<u>Dry</u>	<u>Wet</u>
(1)	4-5	4-5
(2)	4-5	4-5
(3)	4-5	4-5
(4)	4-5	4-5
(5)	4-5	4-5

Remark: Evaluating against ISO Grey Scale for Staining.

Applicant's acceptance ratings :

Dry rubbing: 2-3 or above

Wet rubbing: 2-3 or above

Tested Components:

- (1) White woven with light teal and pink printing (YC6503).
- (2) White woven with blue and dark pink multicolor printing (MCHA01).
- (3) White woven with dark blue and green multicolor printing (MCHA02).
- (4) Beige woven tape.
- (5) White woven with blue multicolor printing (MCHA03).

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(3) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217

Tested Component:

(1) Light brown plastic (frame of loungers).

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(4) Phthalate Content Test

Test Method : ISO 8124-6 : 2023 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (% w/w)	Limit (% w/w)
	(1)	
Dibutyl phthalate (DBP)	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Component:

(1) Light brown plastic (frame of loungers).

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(5) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)	Limit (ppm)
	(1)	
Benzo(a)pyrene	<0.20	1
Benzo(e)pyrene	<0.20	1
Benzo(a)anthracene	<0.20	1
Chrysene	<0.20	1
Benzo(b)fluoranthene	<0.20	1
Benzo(j)fluoranthene	<0.20	1
Benzo(k)fluoranthene	<0.20	1
Dibenzo(a,h)anthracene	<0.20	1

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

Tested Component:

(1) Light brown plastic (frame of loungers).

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(6) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

EN ISO 14362-1 : 2017 for Textile Material

EN ISO 17234-1: 2015 for Leather Material

EN ISO 14362-3 : 2017 & EN ISO 17234-2: 2011 for 4-Aminoazobenzene

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



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No.	Forbidden Amine	CAS No.	Result (ppm)
			(4/5)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N



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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



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No.	Forbidden Amine	CAS No.	Result (ppm)
			(4/5)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N

N = Not detected

Detection limit = 5 ppm

Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg

Method T : Direct buffer extraction as per EN ISO 14362-1 : 2017 Section 10.2

Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

Method L : EN ISO 17234-1: 2015

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
- The test component with p-aminoazobenzene less than detection limit was tested by EN ISO 14362-1 : 2017 for textile material / EN ISO 17234-1: 2015 for leather material.



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Tested Components:

- (1) White fabric with multicolor printings (seat of chair).
- (2) White fabric with multicolor printings (seat of "Where is the limit?" lounge).
- (3) White fabric with multicolor printings (seat of "RACING 23" lounge).
- (4) White fabric with light blue / red printings (seat of flower lounge).
- (5) Light brown webbing (strap of "RACING 23" lounge).

Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:
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. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

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(7) Formaldehyde Release

Test Method : EN717-3 : 1996 by Flask Method.

Tested Component	Result in ppm	Applicant's requirement in ppm ppm
(1)	<1	80

ppm = parts per million = mg/kg

Tested Component:

- (1) Pale brown wood (frame of chair, all loungers).

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(8) Pentachlorophenol (PCP) Content

Test Standard : With reference to BVL B 82.02-8:2001 for textiles, EN ISO 17070:2015 for leather, CEN/TR 14823:2003 for wood, paper and paper board, and followed by Gas Chromatographic - Mass Spectrometry (GC-MS) analysis.

Tested Component	Result in ppm	Limit in ppm
(1/2)	<0.5	5
(3)	<0.5	5
(4)	<0.5	5

Detection limit = 0.5 ppm

ppm = parts per million = mg/kg

Tested Components:

- (1) White fabric with multicolor printings (seat of chair).
- (2) White fabric with multicolor printings (seat of "Where is the limit?" lounge).
- (3) Pale brown wood (frame of chair, all loungers).
- (4) White fabric with multicolor printings (seat of "RACING 23" lounge) / White fabric with light blue / red printings (seat of flower lounge) / Light brown webbing (strap of "RACING 23" lounge).

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End of report

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