

Test report

23A-013428(A1)



Verify Report

Overall result

PASS

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

Client information

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



Sample information

Description: VISIBLE – High visibility vest, SAFETY PRO – High visibility vest
SKU/style #: MO2243/MO8062/04288
Country of origin: -
Country of distribution: Europe
Quantity submitted: 1 set per color
Labeled age grade: -
Tested age grade: -
Materials: polyester

General information

Sample receipt date: 30-Oct-2023
Testing period: 30-Oct-2023 to 02-Nov-2023
Report date: 02-Nov-2023

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Thetis Tang

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Result summary

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

Test(s) conducted	Conclusion
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 Substrate Materials	PASS
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles	PASS
Colour Fastness to Rubbing	PASS



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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+3	4+6+7	5+10	8+9	11	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	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5+10	23A-012893(A1)	5+10	25-Oct-2023
11	23A-012893(A1)	11	25-Oct-2023





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.	5+10	11	---	---	---	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	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
5+10	23A-012893(A1)	5+10	25-Oct-2023
11	23A-012893(A1)	11	25-Oct-2023





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+2+3	4+6+7	8+9	11	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-diaminoanisole	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	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

Composite results are based on total mass of the composite test portion.

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.





Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1+2+3	23A-012893(A1)	1+2+3	25-Oct-2023
4+6+7	23A-012893(A1)	4+6+7	25-Oct-2023
8+9	23A-012893(A1)	8+9	25-Oct-2023
11	23A-012893(A1)	11	25-Oct-2023





Detailed results

Colour Fastness to Rubbing

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

Specimen No.	12-Body	13	14-Body	14-Grey fabric	15	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	4-5	4-5	4-5	4-5	Min. 2-3
Wet staining	4	4	4	4-5	4	Min. 2-3
Conclusion	PASS	PASS	PASS	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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
12	23A-012893(A1)	12	25-Oct-2023
13	23A-012893(A1)	13	25-Oct-2023
14	23A-012893(A1)	14	25-Oct-2023
15	23A-012893(A1)	15	25-Oct-2023





Specimen description

Specimen #	Specimen description	Location
1	Titian textile	Main body (Titian style)
2	Titian mesh textile	Edge (Titian style)
3	Titian textile	Velcro loop (titian style)
4	Titian textile	Bag (titian style)
5	Titian plastic	Velcro hook (titian style)
6	Yellow textile	Main body (yellow style)
7	Yellow mesh textile	Edge (yellow style)
8	Yellow textile	Velcro loop (yellow style)
9	Yellow textile	Bag (yellow style)
10	Yellow plastic	Velcro hook (yellow style)
11	Grey coated grey textile	Reflective stripe (yellow style)
12	Titian safety waistcoat	Finished product
13	Titian bag	Finished product
14	Yellow safety waistcoat	Finished product
15	Yellow bag	Finished product



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Pictures

Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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