



TEST REPORT

Test Report # 17A-004104-1 Date of Report Issue: December 15, 2017
Date of Sample Received: December 13, 2017 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.
Address: Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong



SAMPLE INFORMATION:

Product Name: Wrist band
Model/style No.: MO9236
Main Material: Lycra
Buyer: Mid Ocean Brands B.V.
Supplier: 100396
Country of Distribution: EU
Testing Period: 12/13/2017-12/15/2017

OVERALL RESULT:

PASS with information

Refer to page 2 for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION
TECHNOLOGY CO., LTD

Kevin Lee
Technical Manager





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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
Refer to Detailed Results	Colour Fastness to Rubbing
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as Amended by Commission Regulation (EC) No. 835/2012, Item 23 Cadmium
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
Refer to Detailed Results	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants – 4-Aminoazobenzene in Textiles





DETAILED RESULTS:

Colour Fastness to Rubbing

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

Specimen No.	1		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4-5	Information only
Wet staining	N/A	4-5	

Specimen No.	2		
Items	Client's requirement	Result (Grade)	Conclusion
Dry staining	N/A	4	Information only
Wet staining	N/A	4	

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



**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.	3	5	-	-	-	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	-	-	-	500
Conclusion	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 as Amended by Commission Regulation (EC) No. 835/2012, Item 23 Cadmium

Test Method: EN 1122:2001 Method B
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	-	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	Trial 1	ND	-	-	
	Trial 2	ND	-	-	
	Mean	ND	-	-	100
Conclusion	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 Substrate Materials

Test Method: ASTM F963-16 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5	-	-	-	-	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 = 15 mg/kg)



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

Test Method: EN 14362-1:2012
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2	4	-	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	-	30
Benzidine	92-87-5	ND	ND	ND	-	30
4-chloro-o-toluidine	95-69-2	ND	ND	ND	-	30
2-naphtylamine	91-59-8	ND	ND	ND	-	30
2-Amino-4-Nitrotoluene	97-56-3	ND	ND	ND	-	30
5-nitro-o-toluidine	99-55-8	ND	ND	ND	-	30
4-chloroaniline	106-47-8	ND	ND	ND	-	30
4 methoxy-m - phenylenediamine	615-05-4	ND	ND	ND	-	30
4,4'-diaminodiphenyl methane	101-77-9	ND	ND	ND	-	30
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	-	30
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	-	30
3,3'-dimethylbenzidine	119-93-7	ND	ND	ND	-	30
3,3'-dimethyl-4,4'- diaminodiphenyl methane	838-88-0	ND	ND	ND	-	30
p-cresidine	120-71-8	ND	ND	ND	-	30
4,4'-methylene-bis-(2- chloro-aniline)	101-14-4	ND	ND	ND	-	30
4,4'-oxydianiline	101-80-4	ND	ND	ND	-	30
4,4'-thiodianiline	139-65-1	ND	ND	ND	-	30
o-toluidine	95-53-4	ND	ND	ND	-	30
2,4-toluylenediamine	95-80-7	ND	ND	ND	-	30
2,4,5-trimethylaniline	137-17-7	ND	ND	ND	-	30
2-methoxyaniline	90-04-0	ND	ND	ND	-	30
4-aminoazobenzene	60-09-3	Detected*	Detected*	Detected*	-	30
Conclusion		Refer to PAAB Results	Refer to PAAB Results	Refer to PAAB Results	-	





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.

*The presence of 4-aminoazobenzene (PAAB) releasing colorants was detected, therefore, EN 14362-3 was conducted for confirmation.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants – 4-Aminoazobenzene in Textiles**

Test Method: EN 14362-3:2012
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	1	2	4	-	Limit (mg/kg)
Test Item CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-aminoazobenzene 60-09-3	ND	ND	ND	-	30
Conclusion	PASS	PASS	PASS	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

Remark:

In the case of determined levels of 4-aminoazobenzene less than or equal to 30 mg/kg

- According to the analysis as carried out, azo colorants which can release 4-aminoazobenzene by reductive cleavage of their azo group/s were not detected in the commodity submitted.



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Orange textile	Main body
2	White coated black textile	Main body
3	Black plastic	Zipper teeth
4	Black textile	Zipper cloth
5	Silver metal	Zipper head





SAMPLE PHOTO:





PRODUCT PHOTO:



-End Report-

