

Test report

T-26210068-11-R1



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: Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



Sample information

Description: Pair of socks with santa pattern
Supplier: 118518
Country of origin: -
Country of distribution: Europe
Model#: CX1585/CX1586
Quantity submitted: 5 pcs + 2 styles + a lot parts
Labeled age grade: -
Tested age grade: -
Buyer: Mid Ocean Brands B.V.

General information

Sample receipt date: 08-Apr-2026
Testing period: 08-Apr-2026 to 13-Apr-2026,
22-Apr-2026 to 29-Apr-2026,
07-May-2026 to 09-May-2026
Report date: 12-May-2026

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

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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 as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	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 63 Lead 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 Item 72, Certain Substances Classified as Carcinogenic, Mutagenic or Toxic for Reproduction (CMR) -Aromatic amine salts	Pass
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)	Pass
Colour Fastness to Rubbing	Pass

Note:

By client's request, selected components were conducted for all chemical testing.



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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-Mass Spectrometry (GC-MS)

Specimen No.		C1	C2	---	---	Limit	Unit
Test Item	CAS No.	Result	Result	Result	Result		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	0.1	% w/w
Butyl benzyl phthalate (BBP)	85-68-7	ND	ND	---	---	0.1	% w/w
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	ND	ND	---	---	0.1	% w/w
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	0.1	% w/w
Sum of DBP, BBP, DEHP, DIBP	---	ND	ND	---	---	0.1	% w/w
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	---	---	---	% w/w
Diisononyl phthalate (DINP)	28553-12-0 / 68515-48-0	ND	ND	---	---	---	% w/w
Diisodecyl phthalate (DIDP)	26761-40-0 / 68515-49-1	ND	ND	---	---	---	% w/w
Sum of DnOP, DINP, DIDP	---	ND	ND	---	---	0.1	% w/w
Conclusion		Pass	Pass	---	---		

Note:

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % w/w)





Detailed results

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

Test Method: ASTM F963-23 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)

Specimen No.		C1	C2	---	---	Limit	Unit
Test Item	CAS No.	Result	Result	Result	Result		
Cadmium (Cd)	7440-43-9	ND	ND	---	---	100	mg/kg
Conclusion		Pass	Pass	---	---		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 20 mg/kg)





Detailed results

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

Test Method: CPSC-CH-E1001-08.3 (Metal);
CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)

Specimen No.		C1	C2	C3+C4+C5	C6+C7	Limit	Unit
Test Item	CAS No.	Result	Result	Result	Result		
Lead (Pb)	7439-92-1	23	ND	ND	ND	500	mg/kg
Conclusion		Pass	Pass	Pass	Pass		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 20 mg/kg)

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





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.		C3+C4+C6	C5+C7	---	---	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	---	---	30
Benzidine	92-87-5	ND	ND	---	---	30
4-chloro-o-toluidine	95-69-2	ND	ND	---	---	30
2-naphtylamine	91-59-8	ND	ND	---	---	30
o-Aminoazotoluene	97-56-3	ND	ND	---	---	30
5-nitro-o-toluidine	99-55-8	ND	ND	---	---	30
4-chloroaniline	106-47-8	ND	ND	---	---	30
2,4-diaminoaniso	615-05-4	ND	ND	---	---	30
4,4'-methylenedianiline	101-77-9	ND	ND	---	---	30
3,3'-dichlorobenzidine	91-94-1	ND	ND	---	---	30
o-dianisidine	119-90-4	ND	ND	---	---	30
3,3'-dimethylbenzidine	119-93-7	ND	ND	---	---	30
4,4'-methylenedi-o-tolui- dine	838-88-0	ND	ND	---	---	30
p-cresidine	120-71-8	ND	ND	---	---	30
4,4'-methylene-bis-(2- chloro-aniline)	101-14-4	ND	ND	---	---	30
4,4'-oxydianiline	101-80-4	ND	ND	---	---	30
4,4'-thiodianiline	139-65-1	ND	ND	---	---	30
o-toluidine	95-53-4	ND	ND	---	---	30
2,4-diaminotoluene	95-80-7	ND	ND	---	---	30
2,4,5-trimethylaniline	137-17-7	ND	ND	---	---	30
2-methoxyaniline	90-04-0	ND	ND	---	---	30
4-aminoazobenzene	60-09-3	ND	ND	---	---	30
Conclusion		Pass	Pass	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

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

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.





Detailed results

Regulation (EC) No 1907/2006 REACH Annex XVII Item 72, Certain Substances Classified as Carcinogenic, Mutagenic or Toxic for Reproduction (CMR) -Aromatic amine salts

Test Method: EN ISO 14362-1:2017

Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.		C3+C4+C6	C5+C7	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-chloro-o-toluidinium chloride ^Δ	3165-93-3	ND	ND	---	---	30
2-Naphthylammoniumacetate ^Δ	553-00-4	ND	ND	---	---	30
2,4-diaminoanisole sulphate ^Δ	39156-41-7	ND	ND	---	---	30
2,4,5-trimethylaniline hydrochloride ^Δ	21436-97-5	ND	ND	---	---	30
Conclusion		Pass	Pass	---	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million)

LT = Less than

ND = Not detected (Reporting Limit = 10 mg/kg)

Δ = Determination was based on aromatic amines analysis. The content was calculated based on assumption of worst-case.

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

Remark:

The analytical result of detected amine is confirmed by LC-DAD / LC-MS.





Detailed results

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		C1	C2	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	---	---	1
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	---	---	1
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	---	---	1
Chrysene (CHR)	218-01-9	ND	ND	---	---	1
Benzo [b] fluroanthene (BbFA)	205-99-2	ND	ND	---	---	1
Benzo [j] fluroanthene (BjFA)	205-82-3	ND	ND	---	---	1
Benzo [k] fluroanthene (BkFA)	207-08-9	ND	ND	---	---	1
Dibenzo [a,h] anthra- cene (DBAhA)	53-70-3	ND	ND	---	---	1
Conclusion		Pass	Pass	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)





Detailed results

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 19×25.4mm.

Specimen No.	T1-Red body	T1-Khaki body	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	4-5	---	---	---	Min. 2-3
Wet staining	4-5	4-5	---	---	---	Min. 2-3
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.

Colour Fastness to Rubbing

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

Specimen No.	T2	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4-5	---	---	---	---	Min. 2-3
Wet staining	4-5	---	---	---	---	Min. 2-3
Conclusion	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 #	Specimen description	Location
C1	Silvery plated grey plastic	All styles-lid
C2	Transparent plastic	All styles-shell
C3	Red plush textile	All styles-main body/toe/socks mouth
C4	Khaki plush textile	All styles-top
C5	Dull red textile	All styles-tape
C6	Black embroidery threads	All styles-eyes
C7	Red plush textile	All styles-ball
T1	Red/khaki/white socks	Finished product
T2	Wine silk ribbon	Raw material

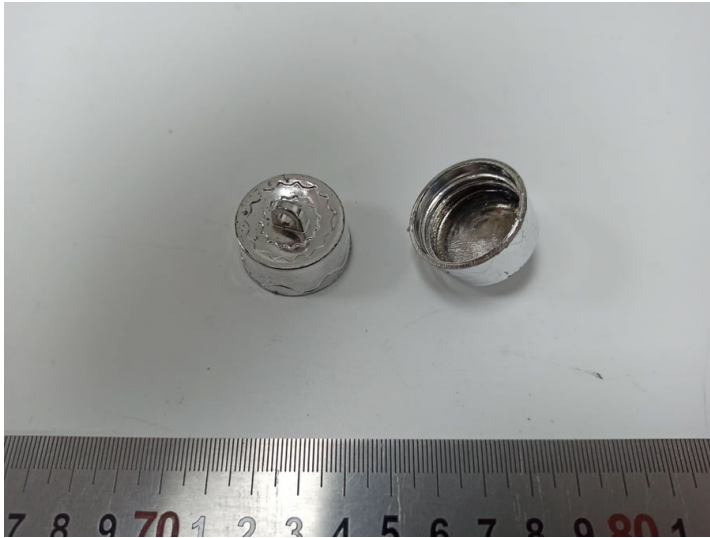


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Pictures

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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